

« il était question d'un Voyage »

ECN

- Items 1, 2, 181, 198, 267, 279, 319

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*Hepato-gastroenterology and digestive oncology department,
University Hospital, F-38000 Grenoble, France*

VOYAGE AU CŒUR DES MÉCANISMES D'ACTION DES TRAITEMENTS DES MICI

Liens d'intérêts : Nicolas Mathieu

Au cours des 3 dernières années,
avec les sociétés Pharmaceutiques suivantes

Recherches cliniques : AMGEN, GILEAD, PAREXEL

Advisory Boards : ABBVIE, FERRING, JANSSEN

Cours, formations : ABBVIE, FERRING, MSD, MEDTRONICS, PFIZER, TAKEDA

Aides pour des recherches : ABBVIE, FERRING, MEDTRONICS, PFIZER, TAKEDA



Veronese, Banquete na Casa de Levi, 1573







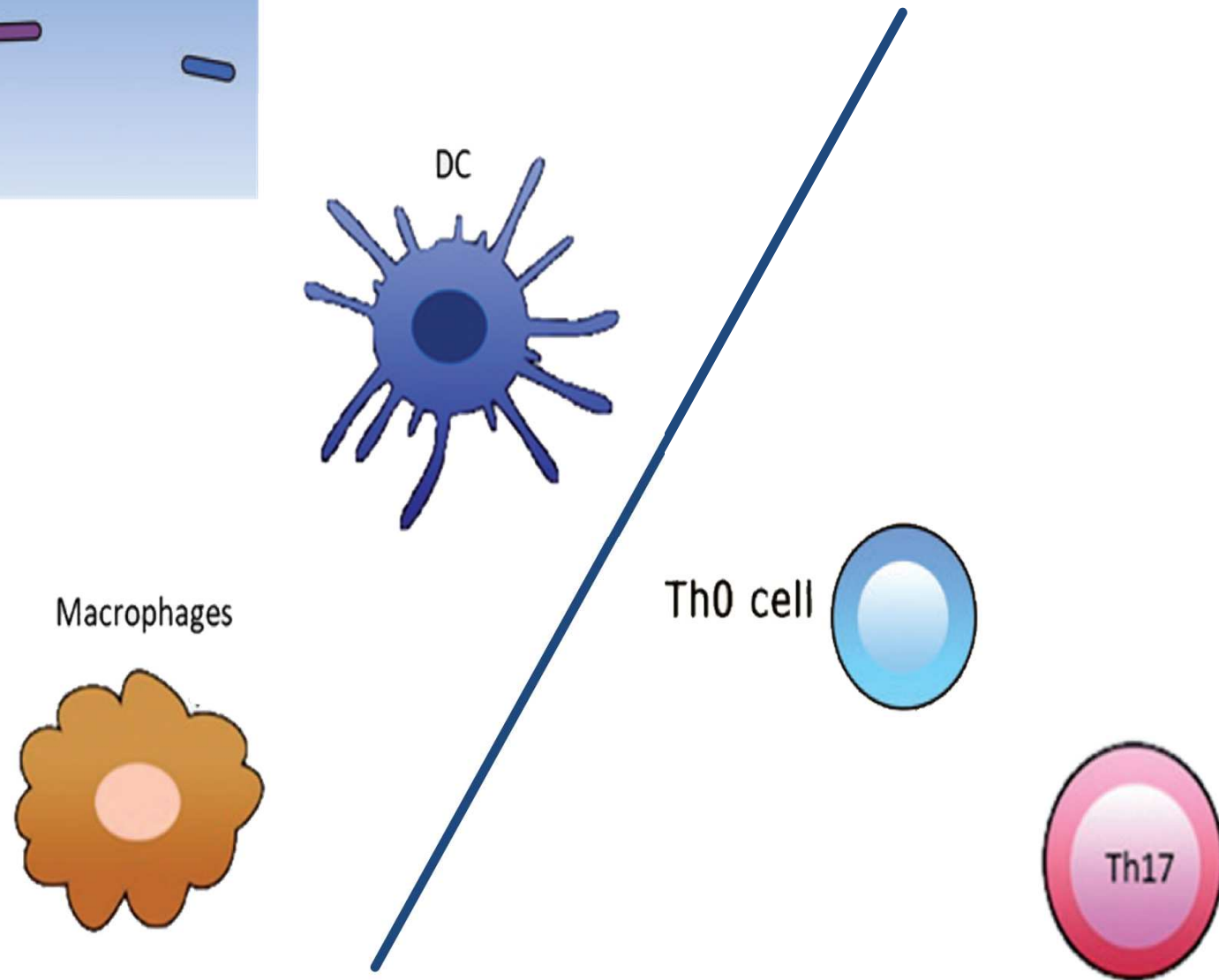
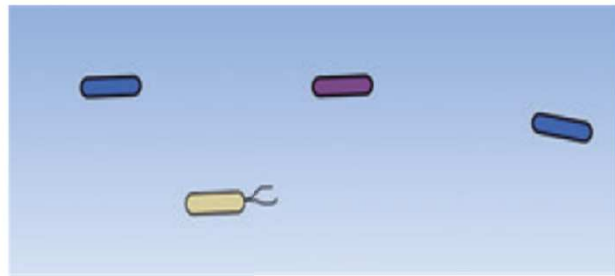
Nicolas MATHIEU

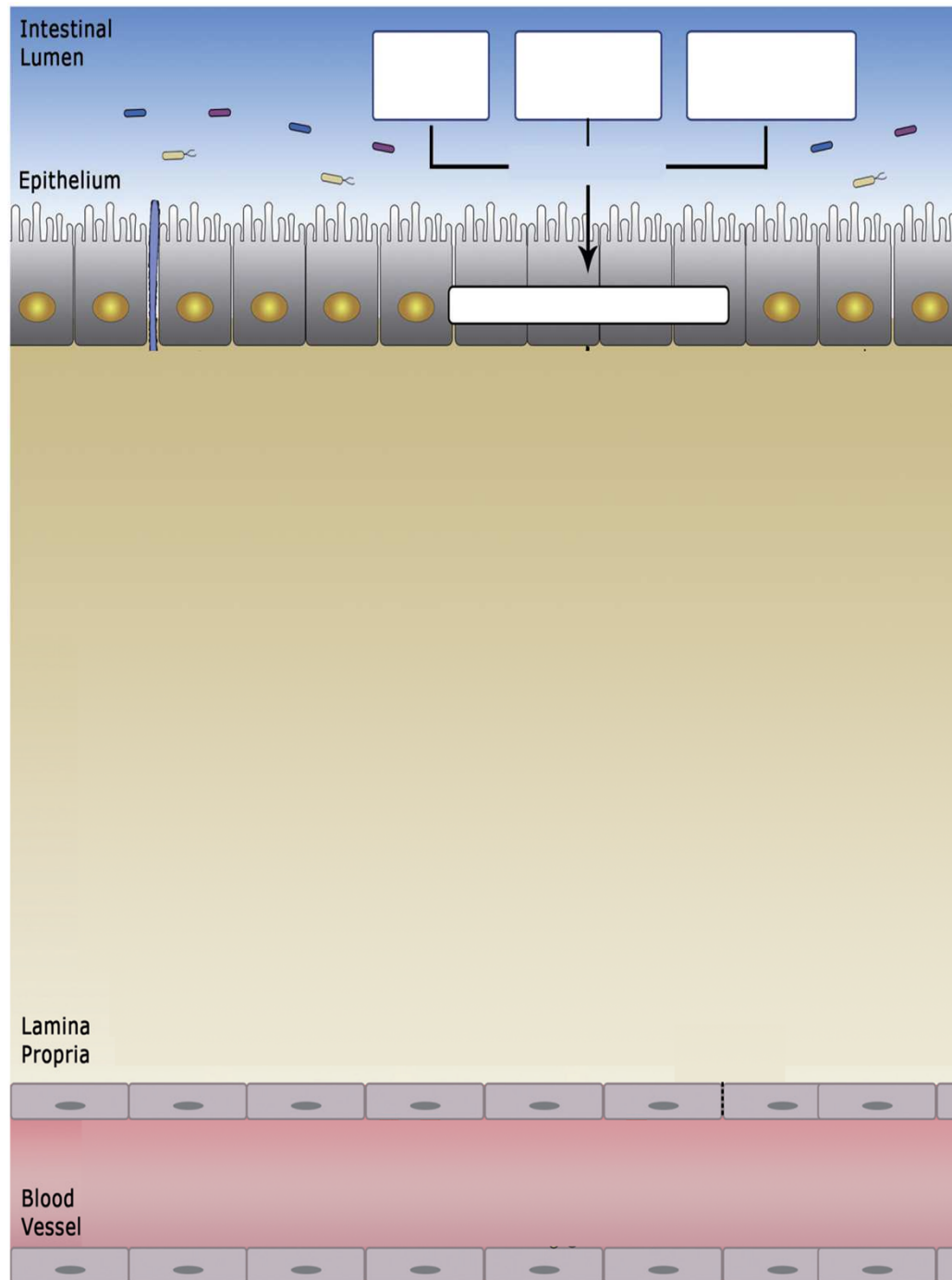
LE VOYAGE FANTASTIQUE

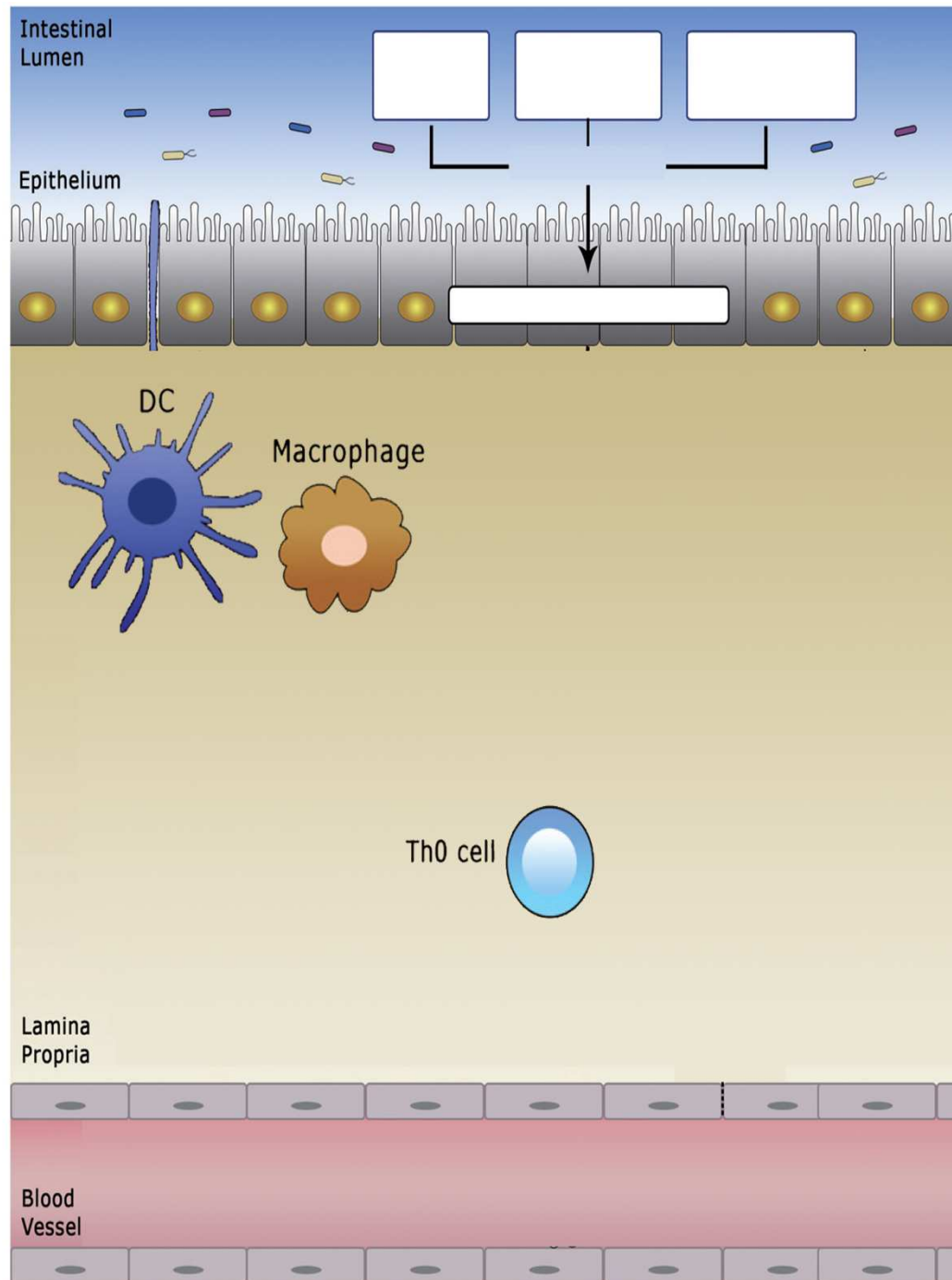
- Utilisé
- En cours d'évaluation
- Controversé
- Echec

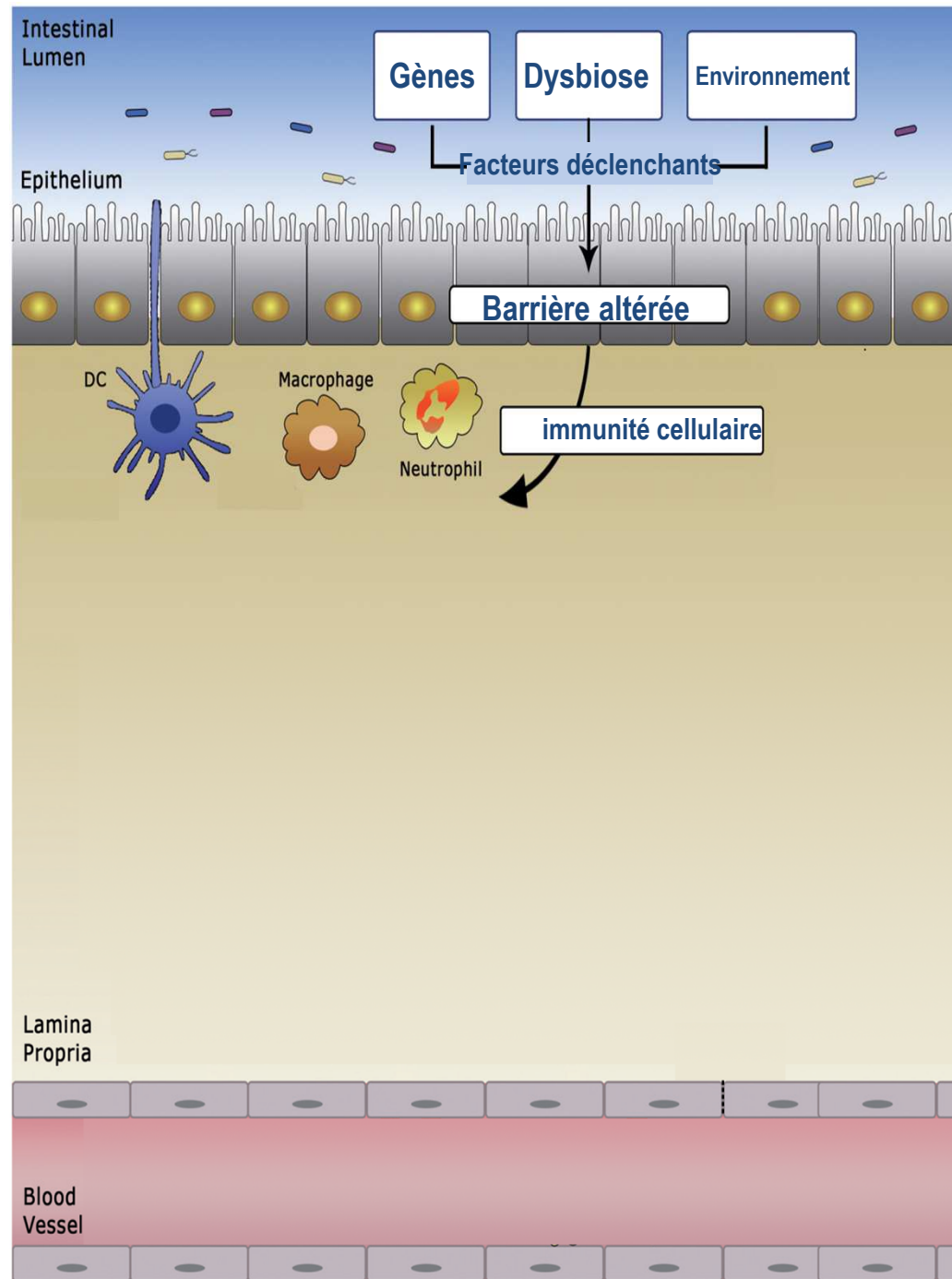
**Que le Grand Anaconda Immuno
daigne me Pardonner**

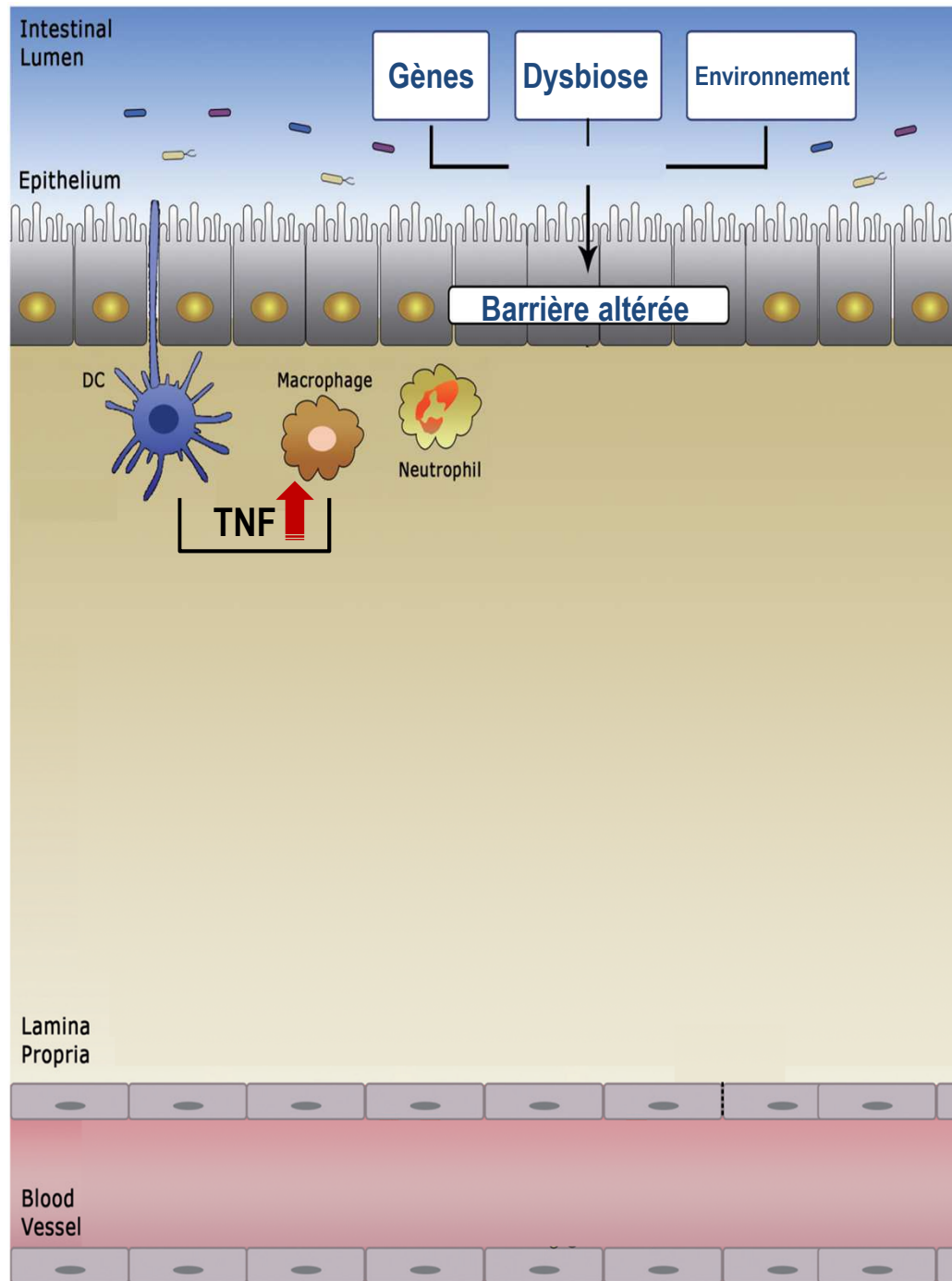
JE VAIS ÊTRE SCHÉMATIQUE...

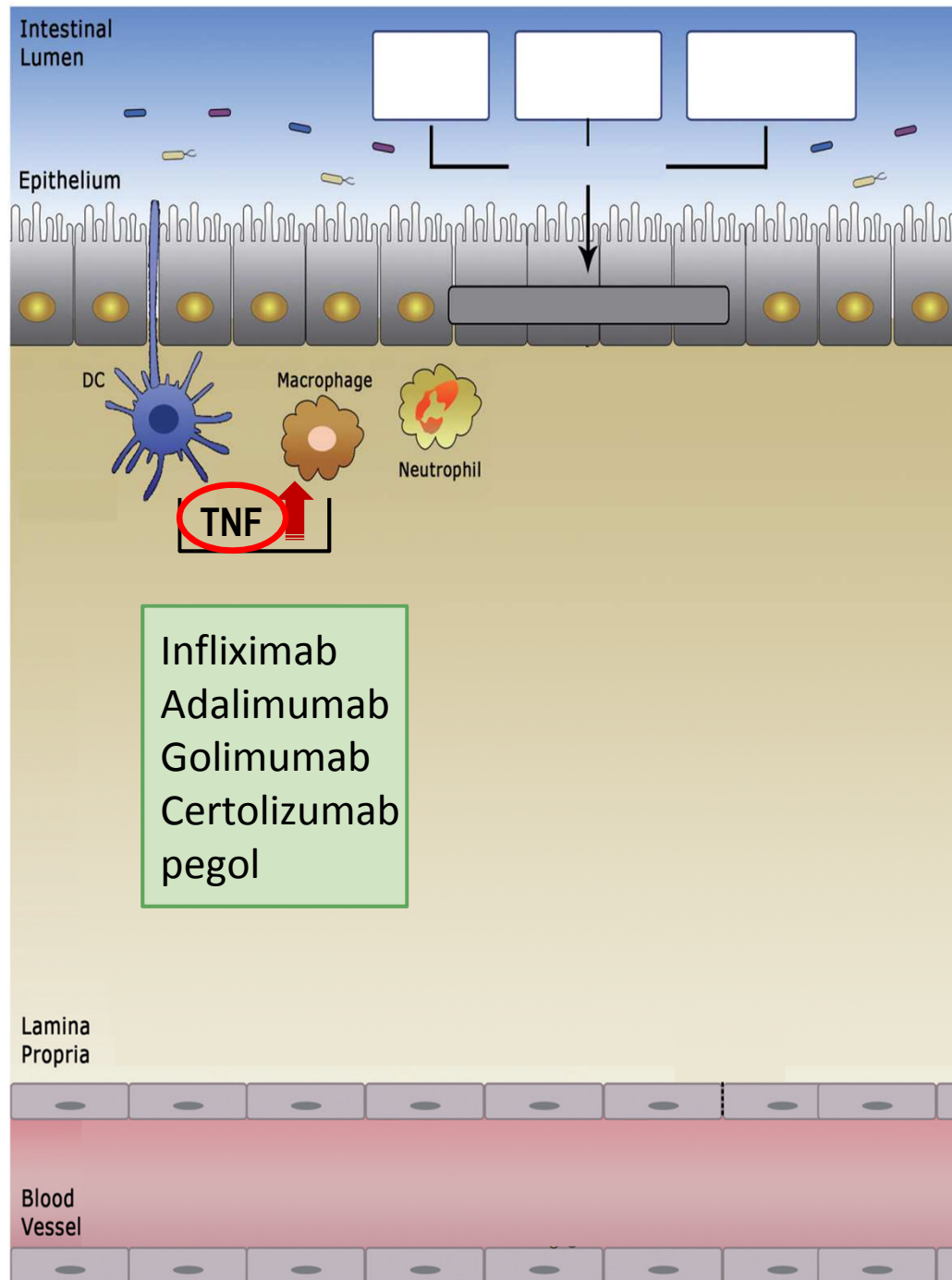




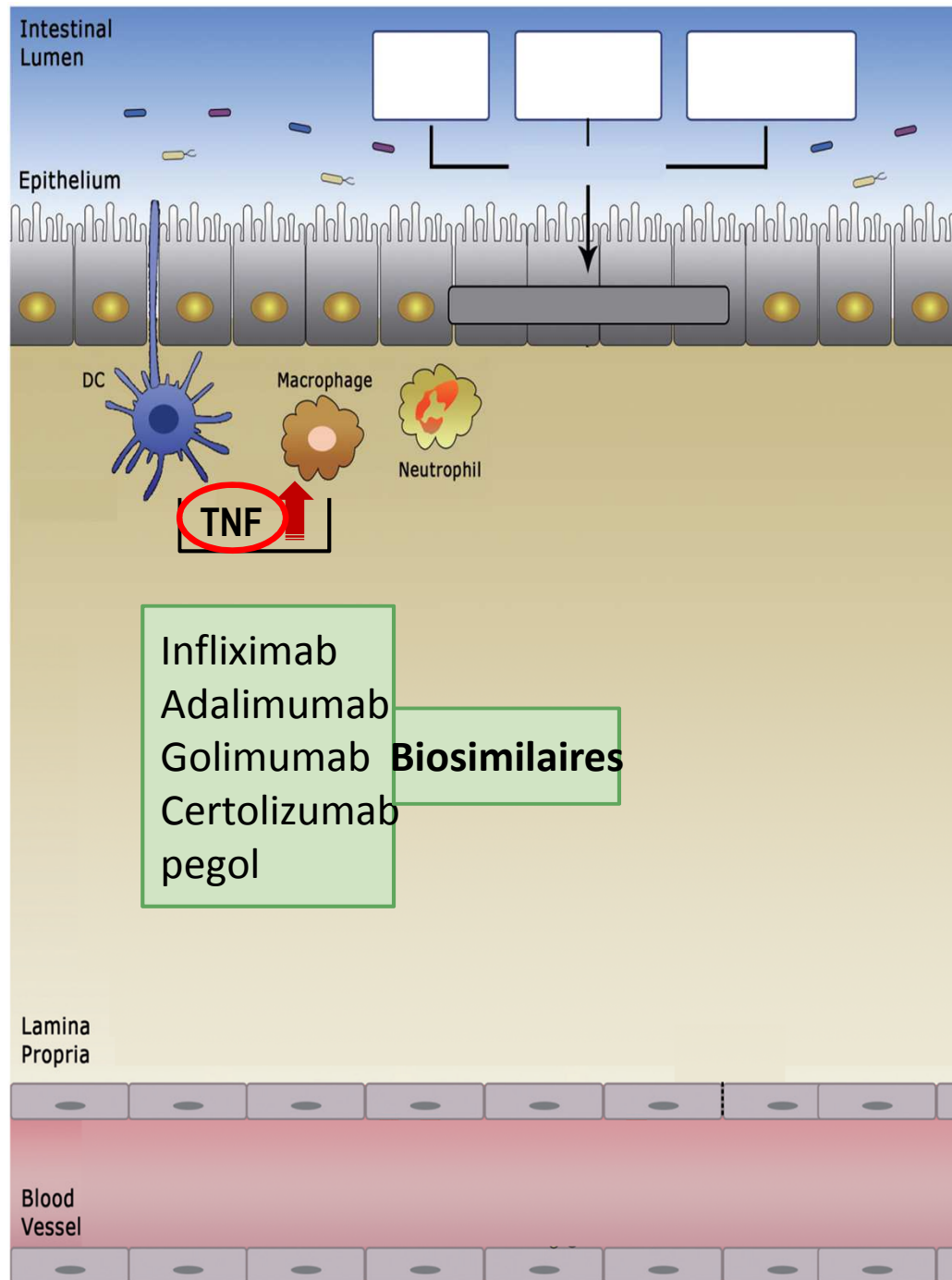


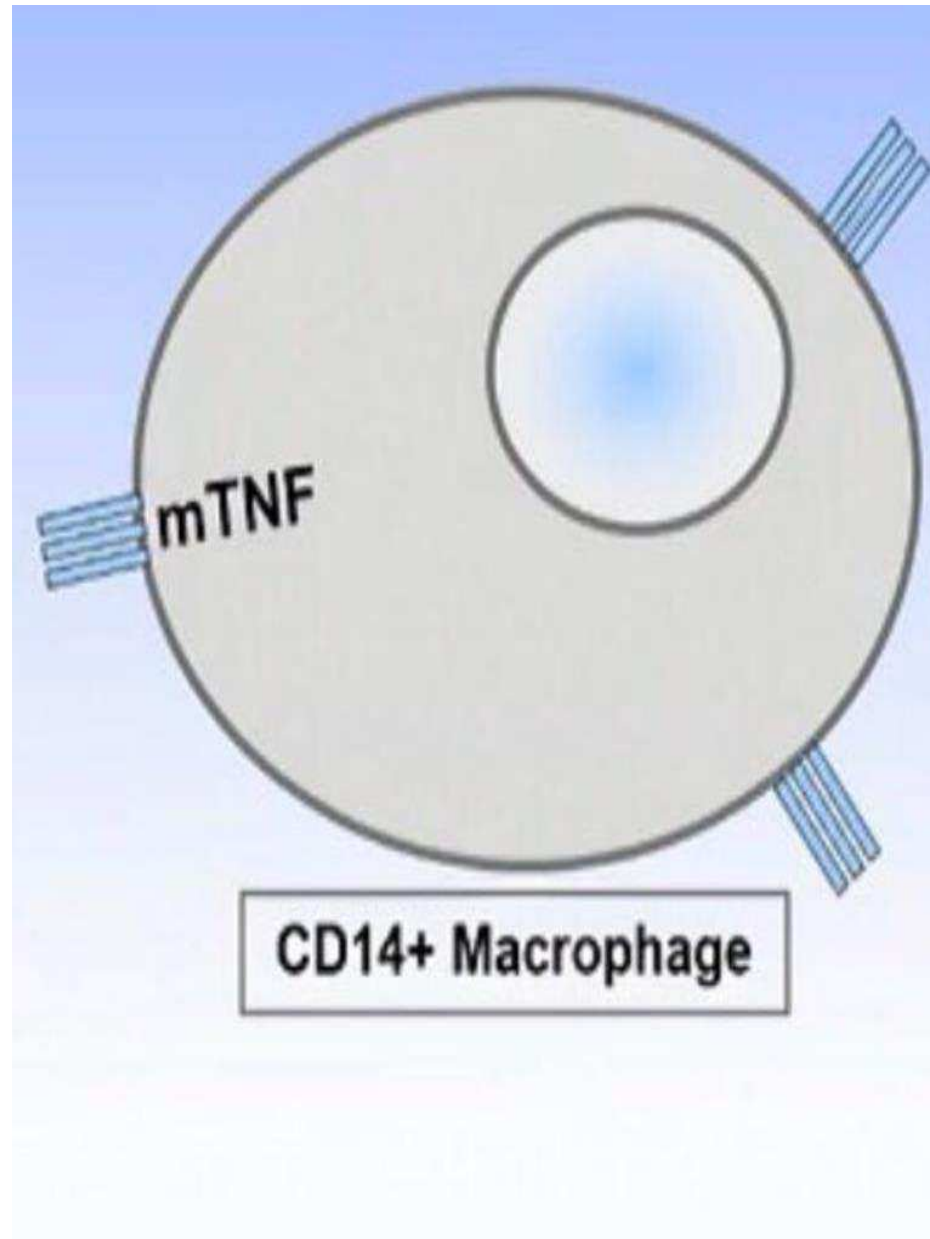






- Utilisé
- En cours d'évaluation
- Controversé
- Echec

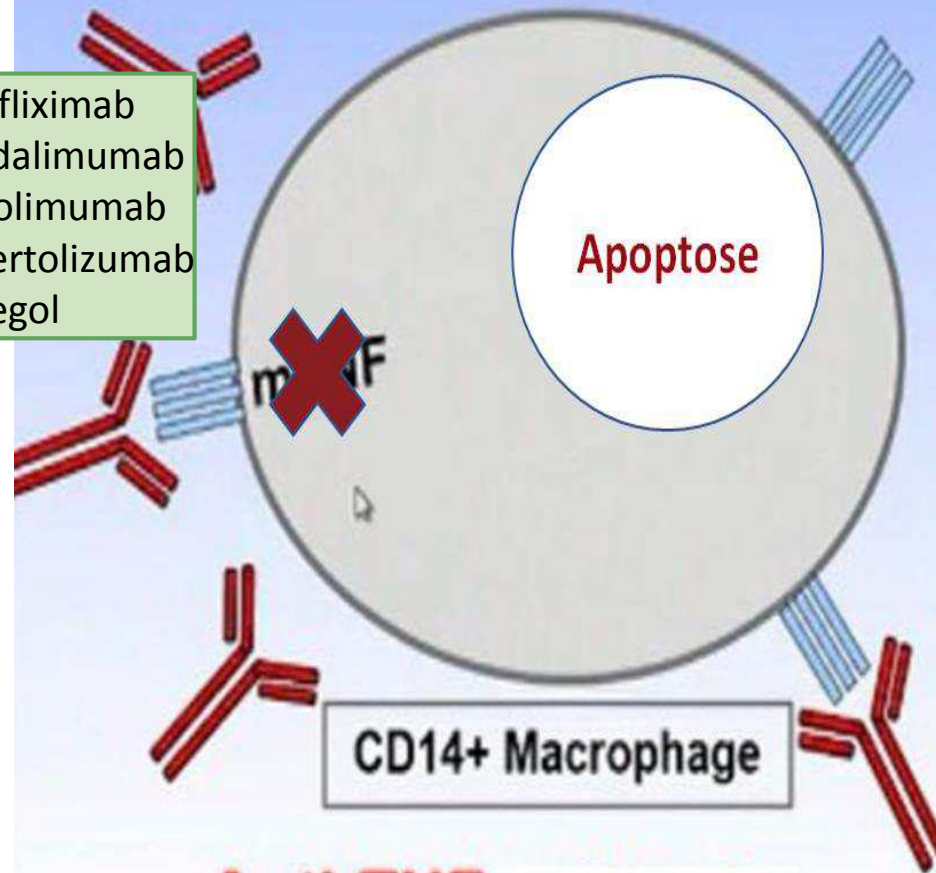




Infliximab
Adalimumab
Golimumab
Certolizumab
pegol

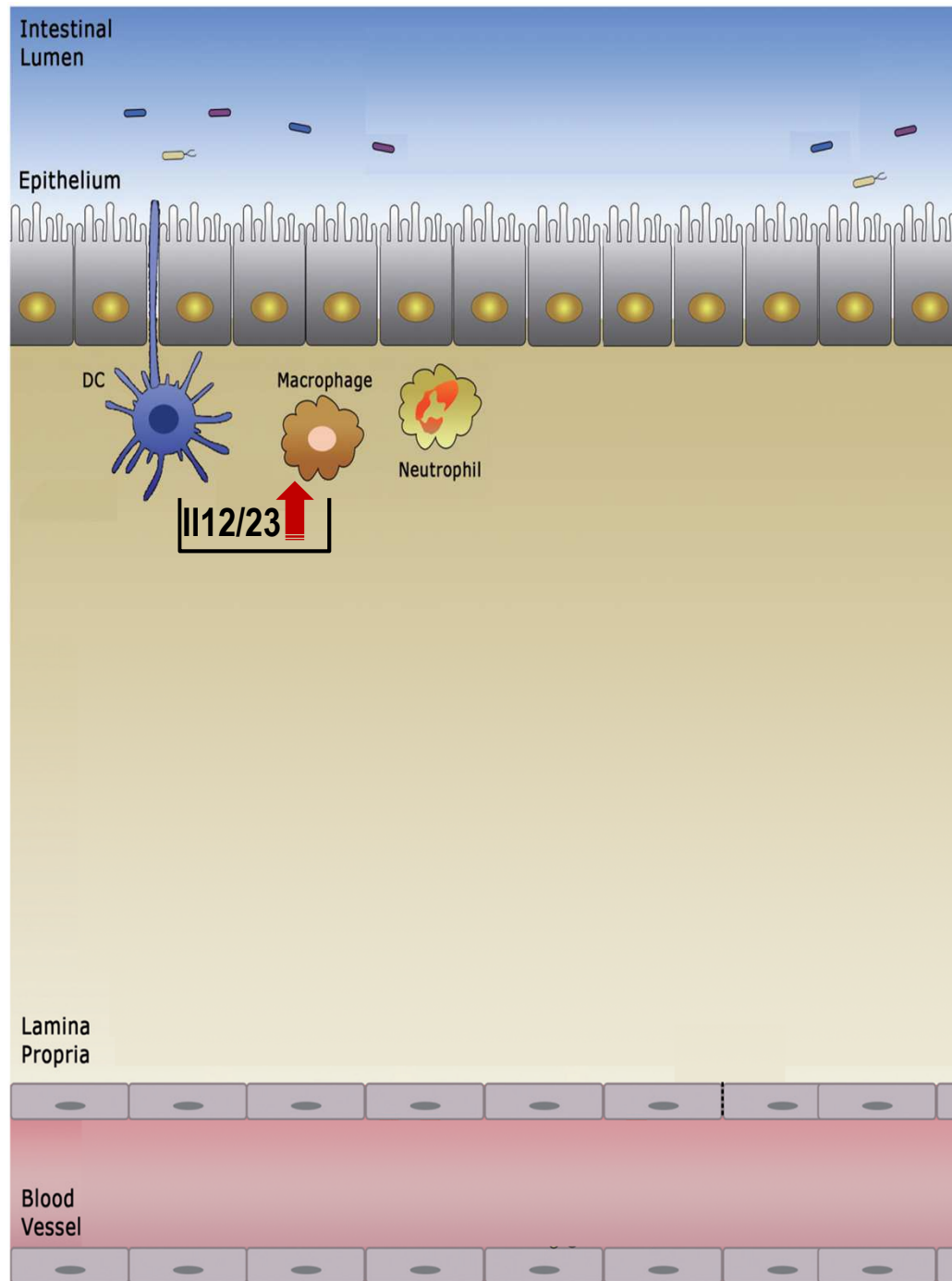
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Di Sabatino A *et al. Gut* 2004; 53:70-77
Levin AD *et al. ECCOJC* 2016; 10:989-997

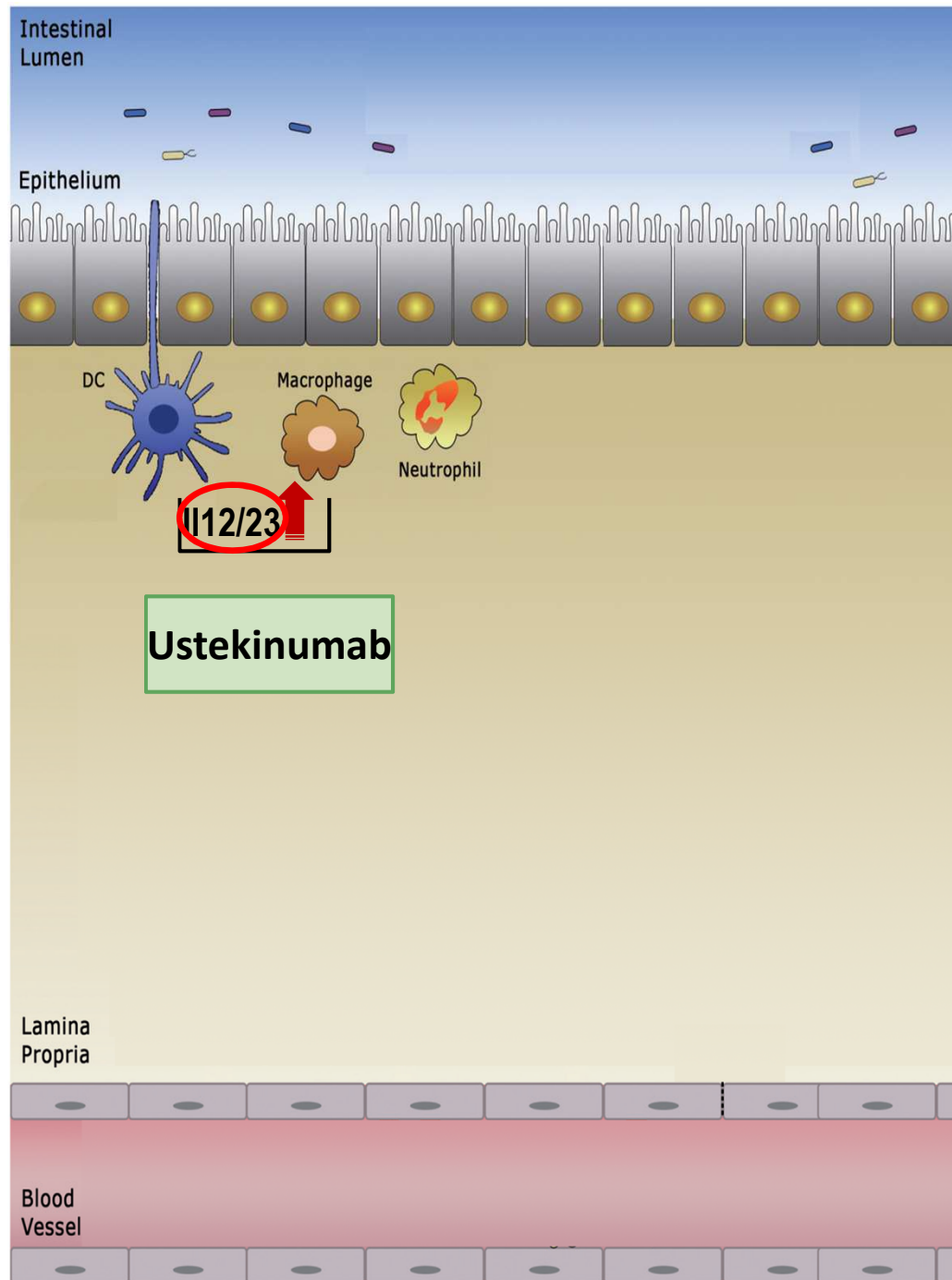
Infliximab
Adalimumab
Golimumab
Certolizumab
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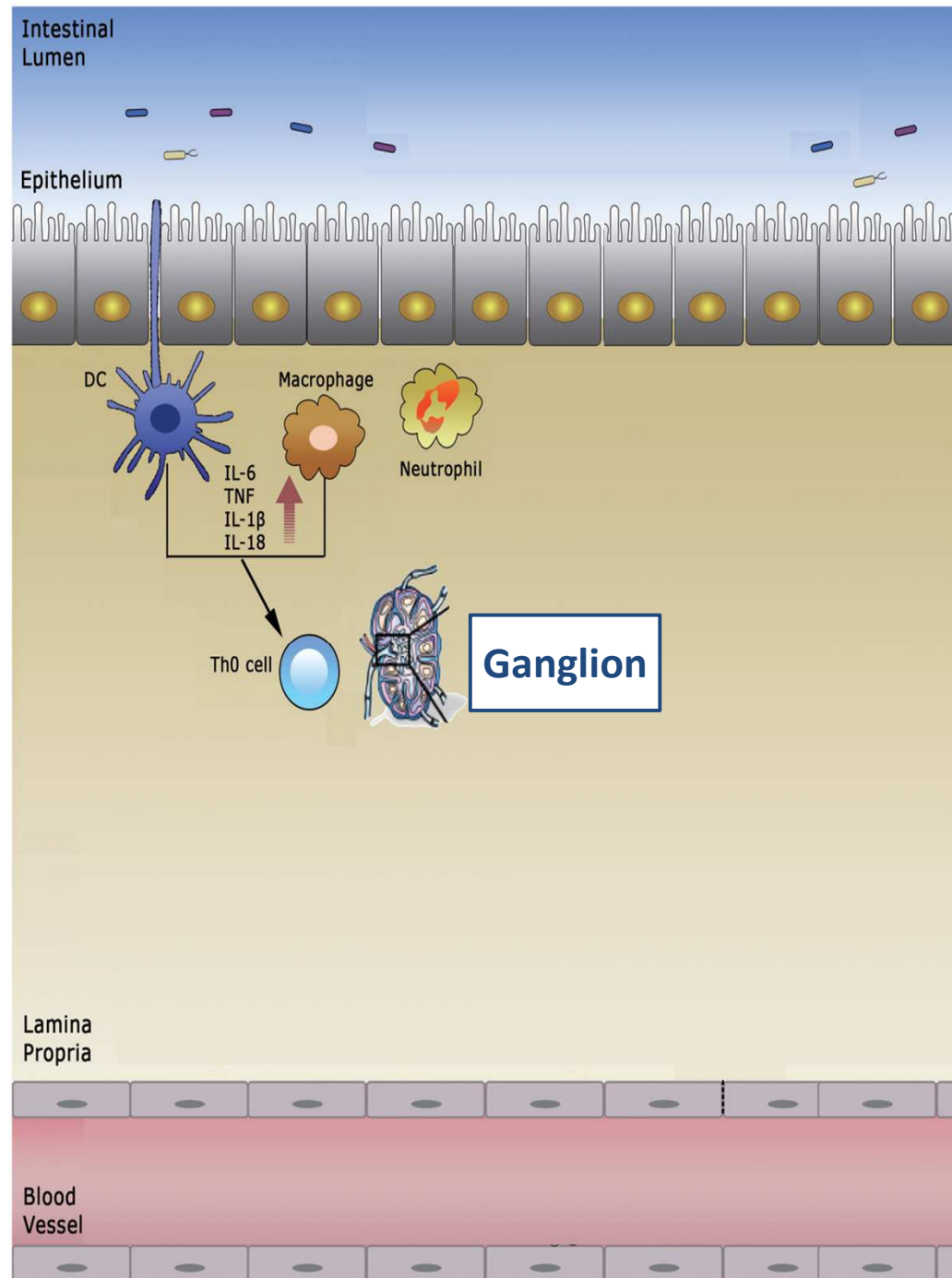


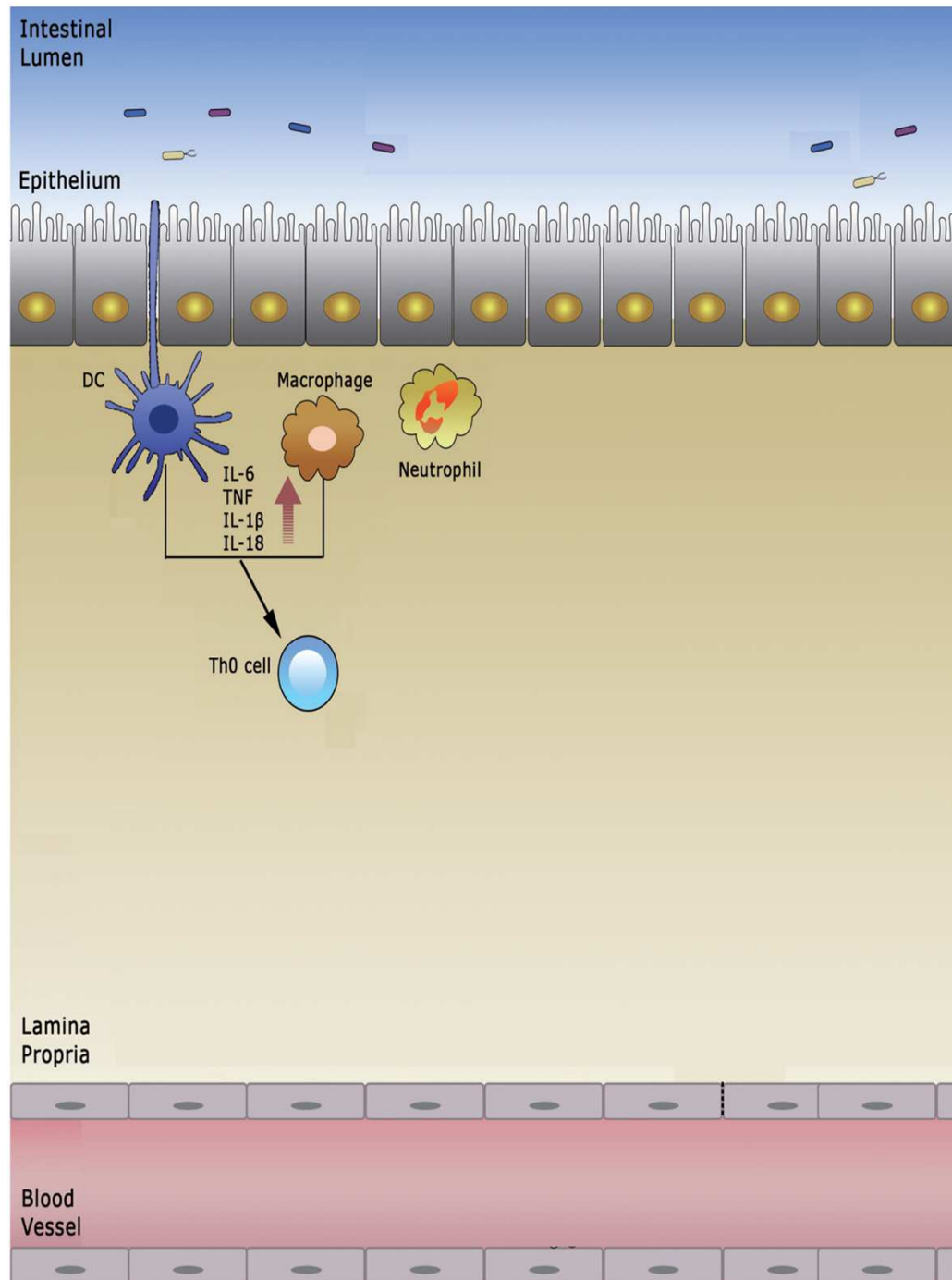
Anti-TNF

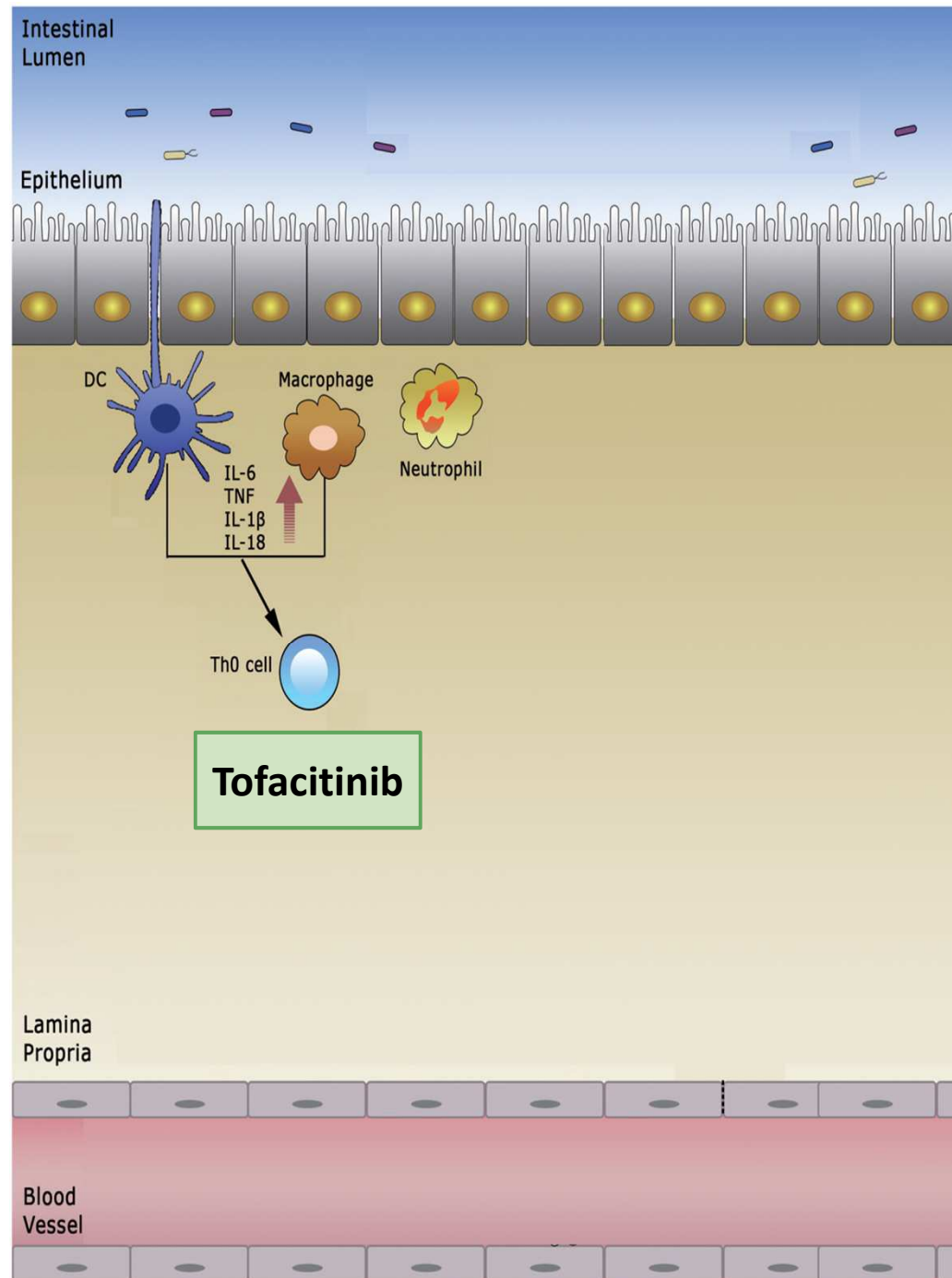
Ten Hove T *et al. Gut* 2002; 50:206-11
Sabatino A *et al. Gut* 2004; 53:70-77
Levin AD *et al. ECCOJC* 2016; 10:989-997

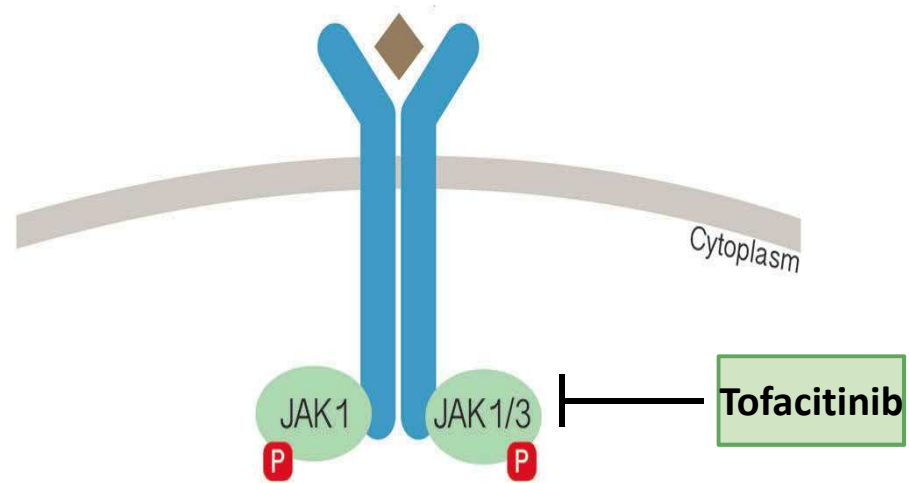


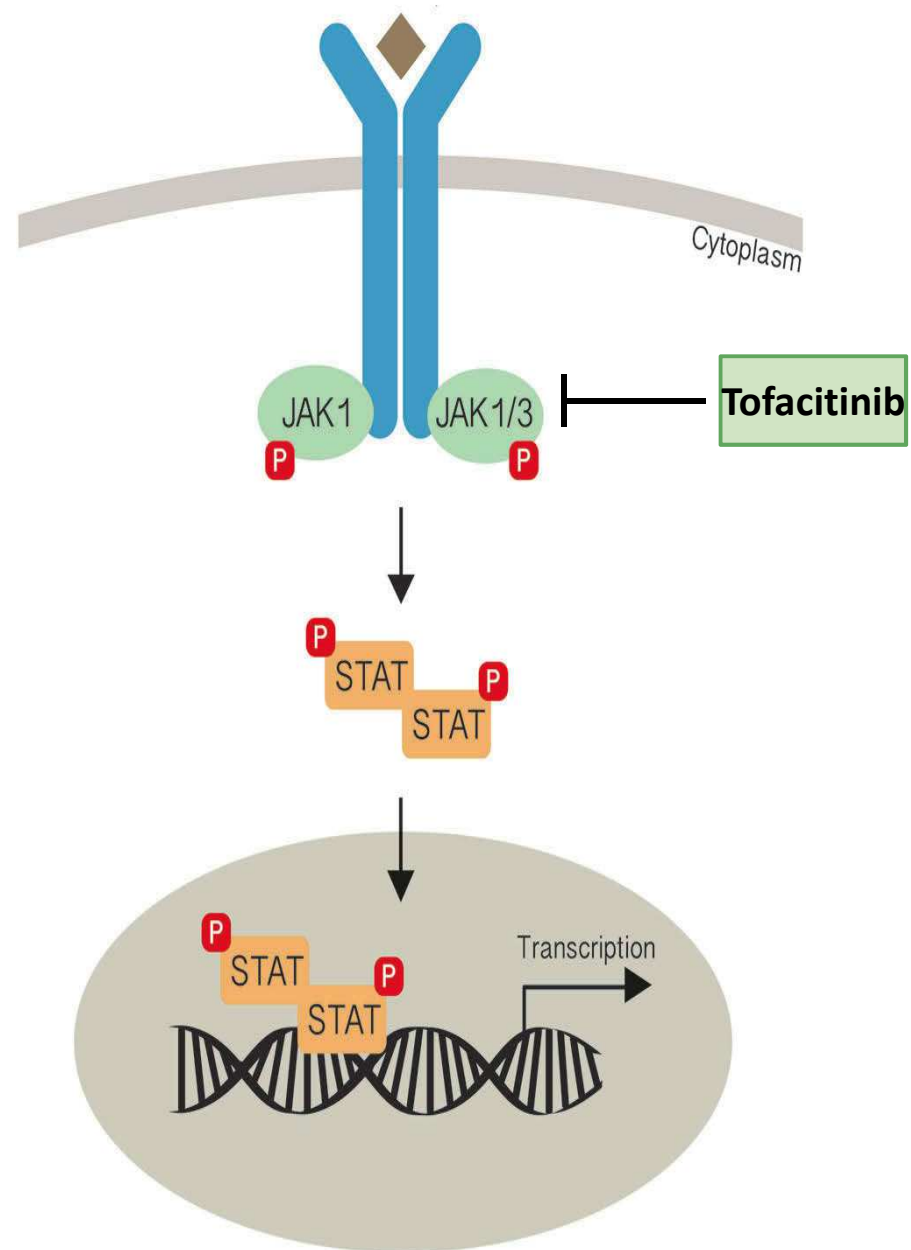


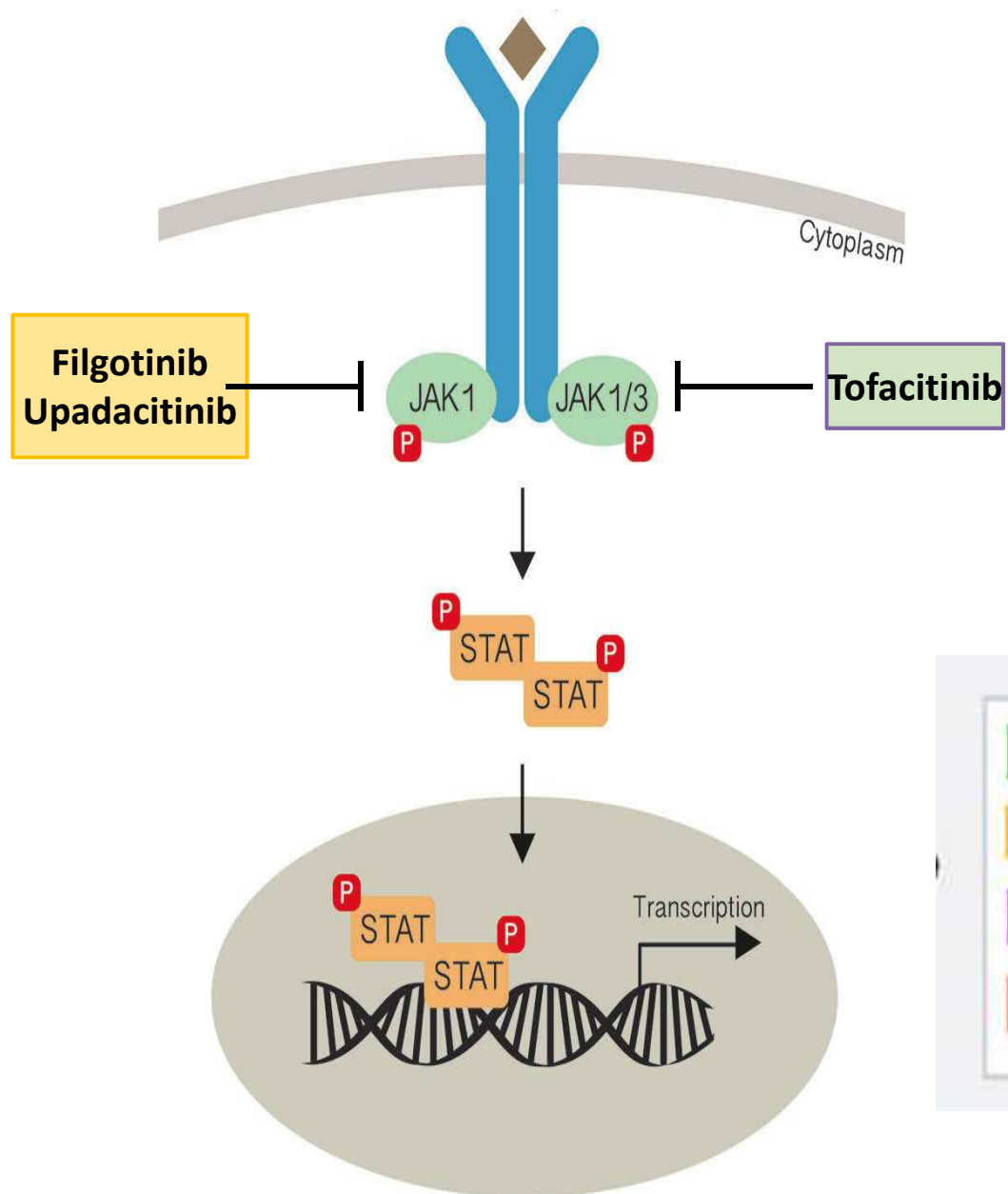














Cytokines	JAKs
IL-2	1 3
IL-7	1 3
IL-15	1 3
IL-21	1 3
IL-6*	1 2 T2
IL-13 [†]	1 2 T2
IFN- γ	1 2
IL-22	1 T2
IL-12	2 T2
IL-23	2 T2
IL-5	2 2
IL-1 β	-
IL-8	-
IL-17	-
IL-18	-
TNF- α	-



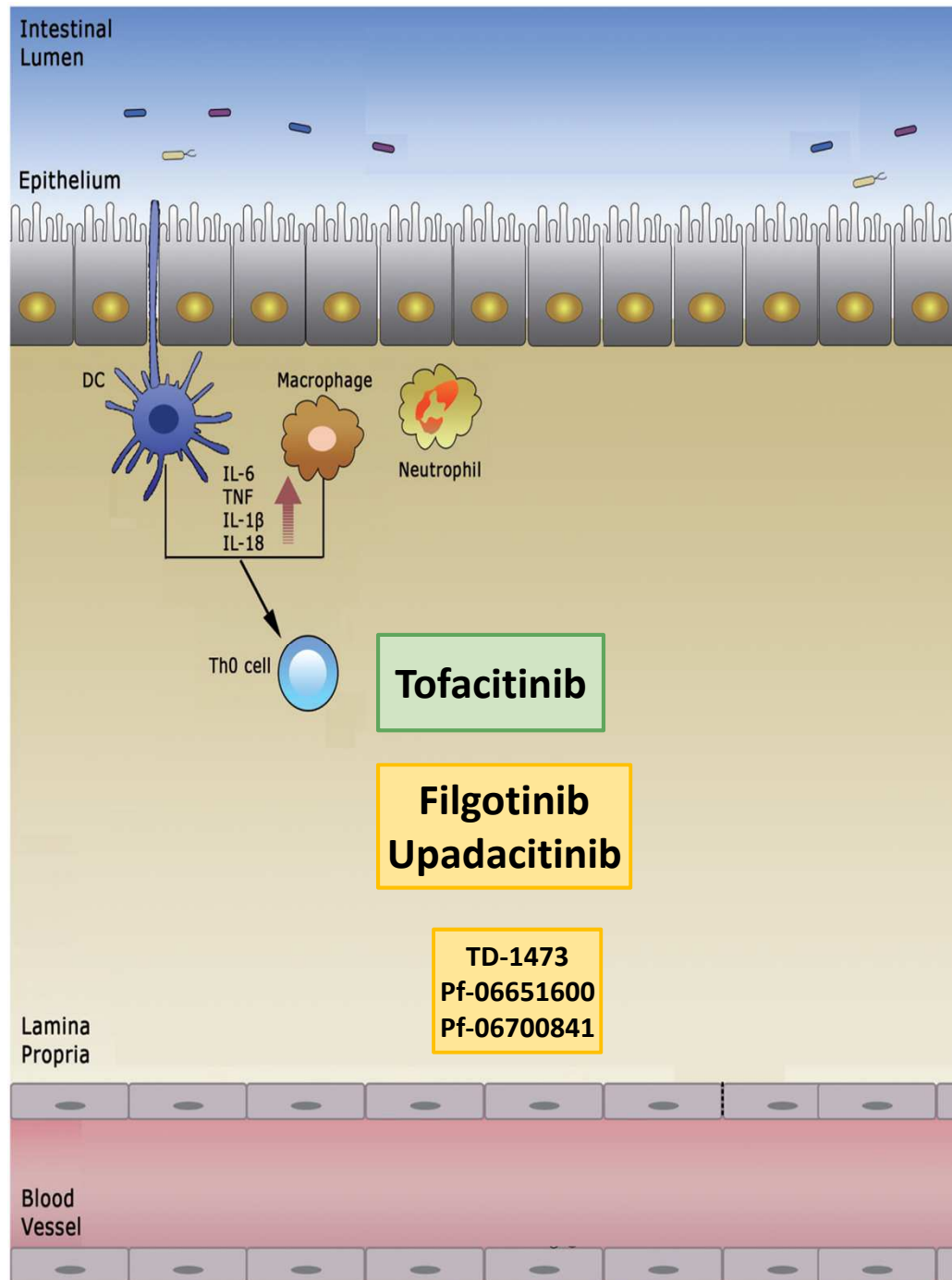
Cytokines	JAKs
	1 3
	1 3
	1 3
	1 3
IL-6	1 2 T2
	1 2 T2
	1 2
IL-22	1 T2
IL-12	2 T2
	2 T2
	2 2
	-
	-
	-
	-
	-

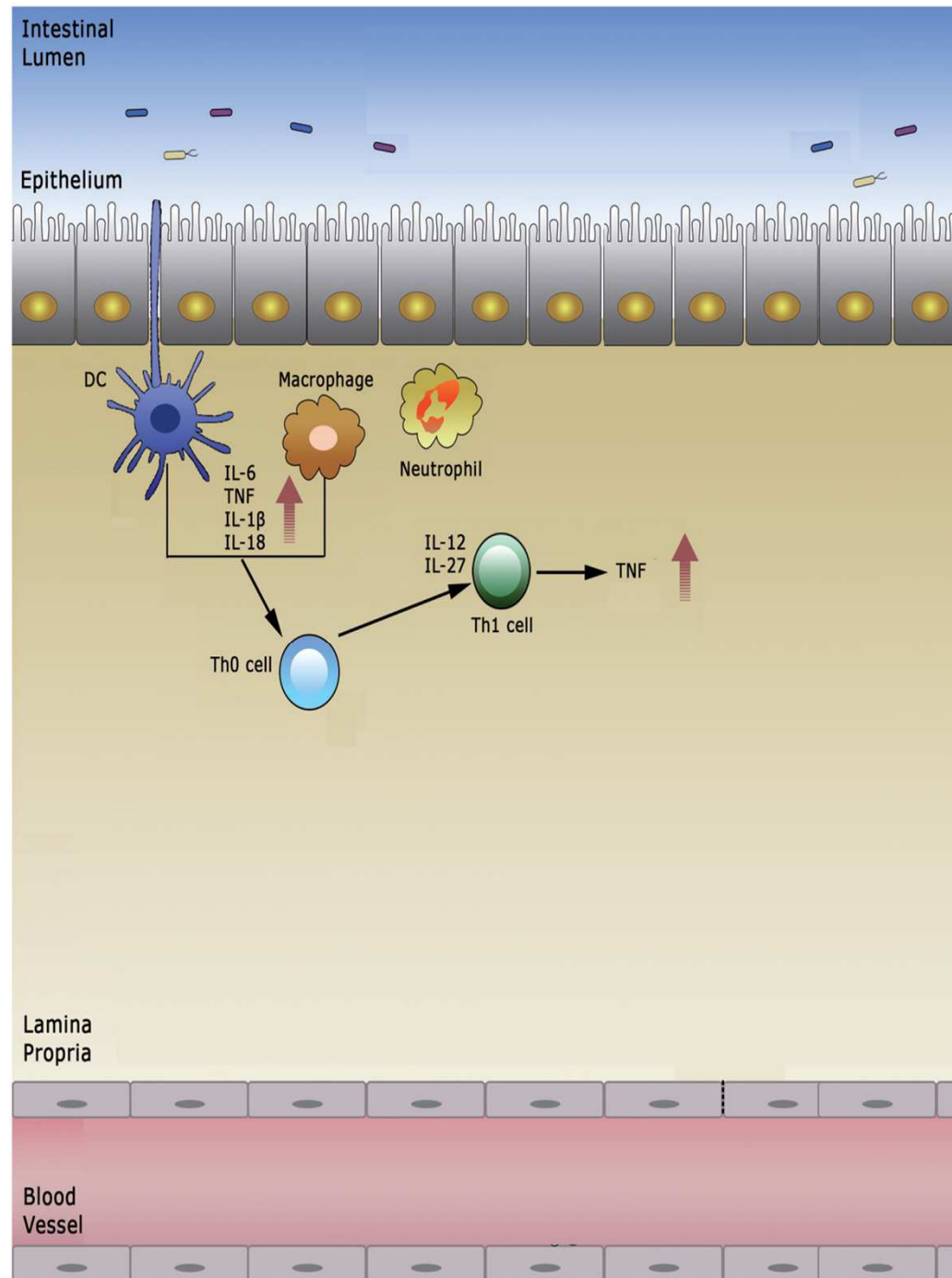


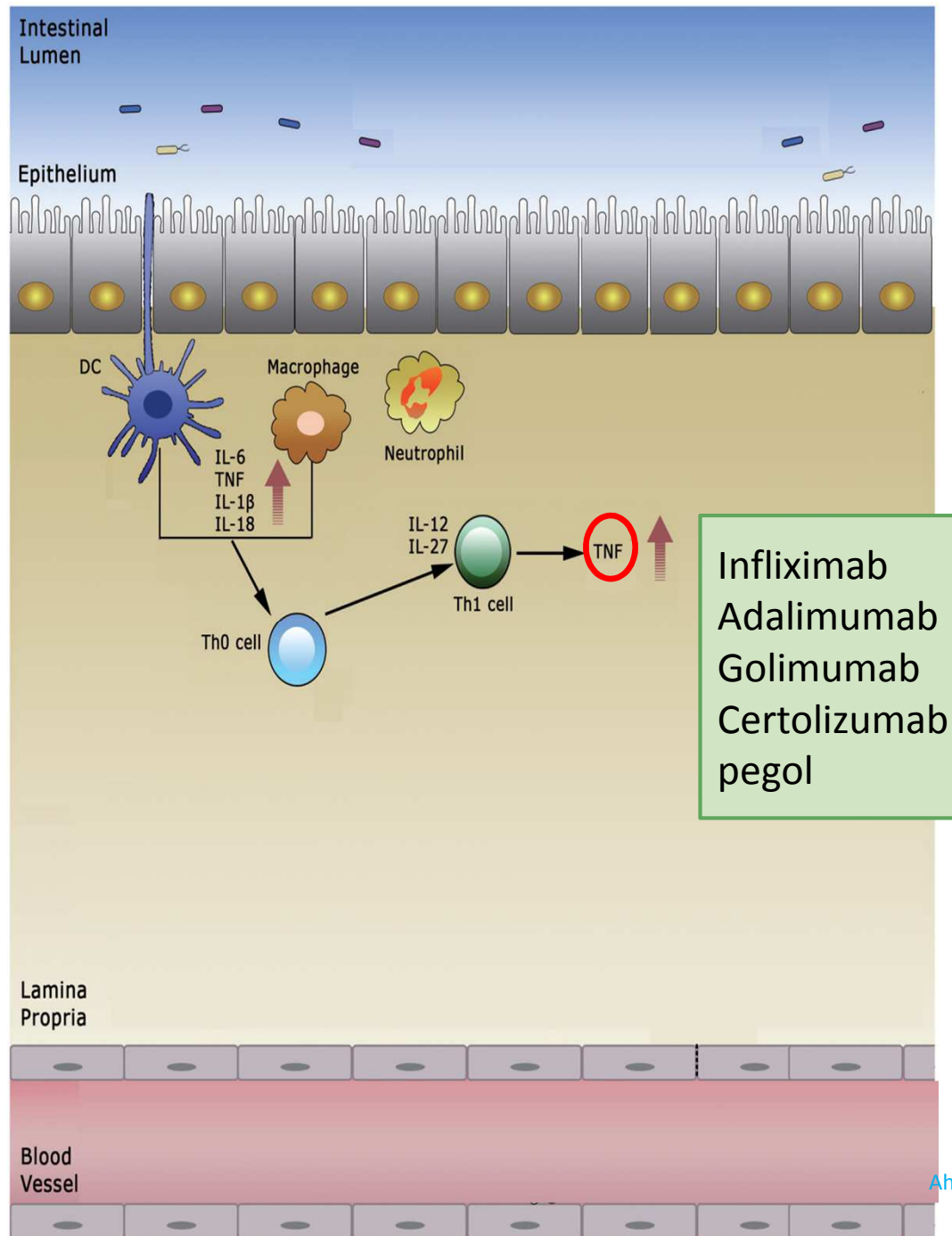
Cytokines	JAKs
	1 3
	1 3
	1 3
	1 3
IL-6	1 2 T2
	1 2 T2
	1 2
IL-22	1 T2
IL-12	2 T2
	2 T2
	2 2
	-
	-
	-
	-
	-

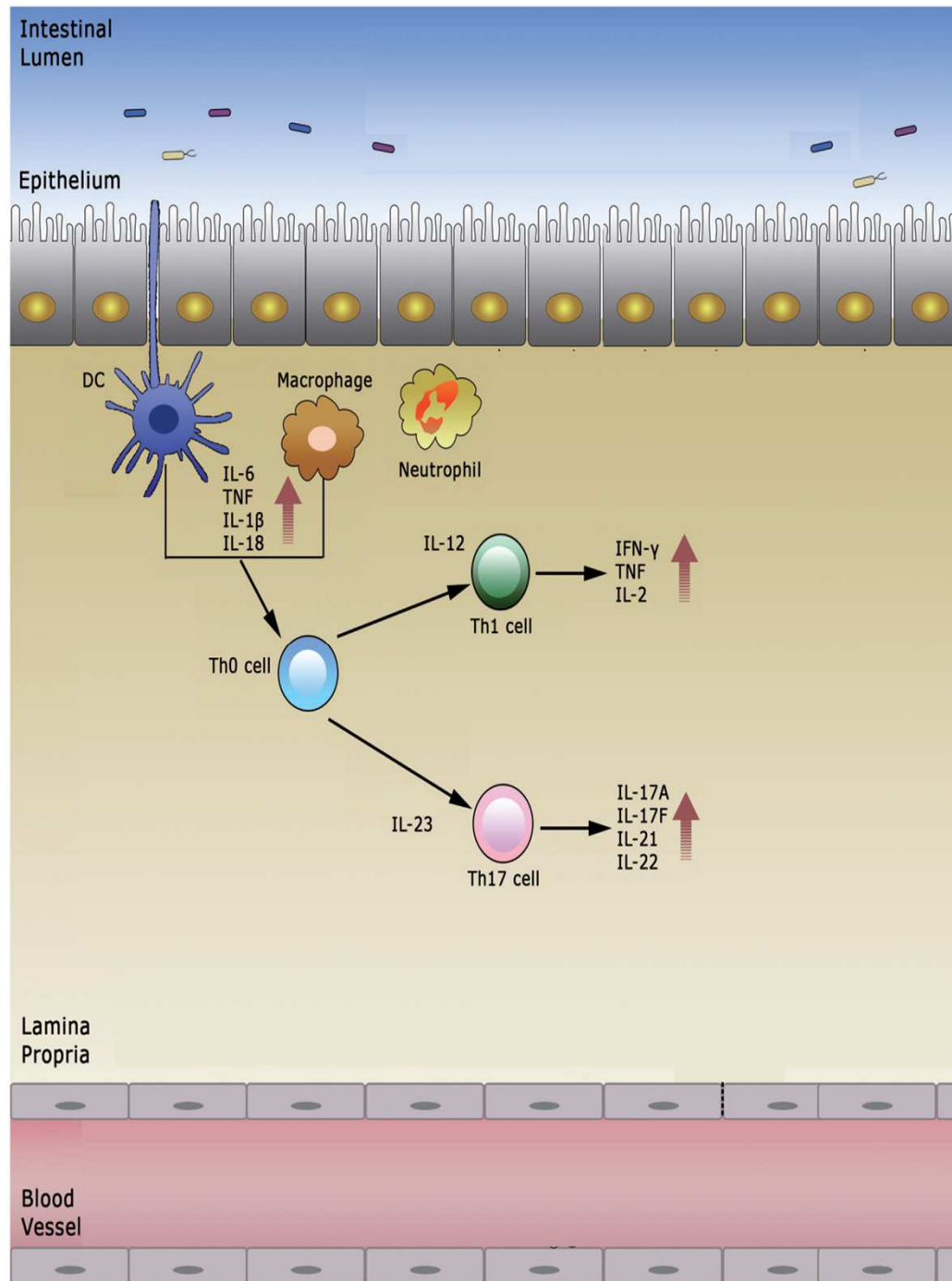
Barrière épithéliale

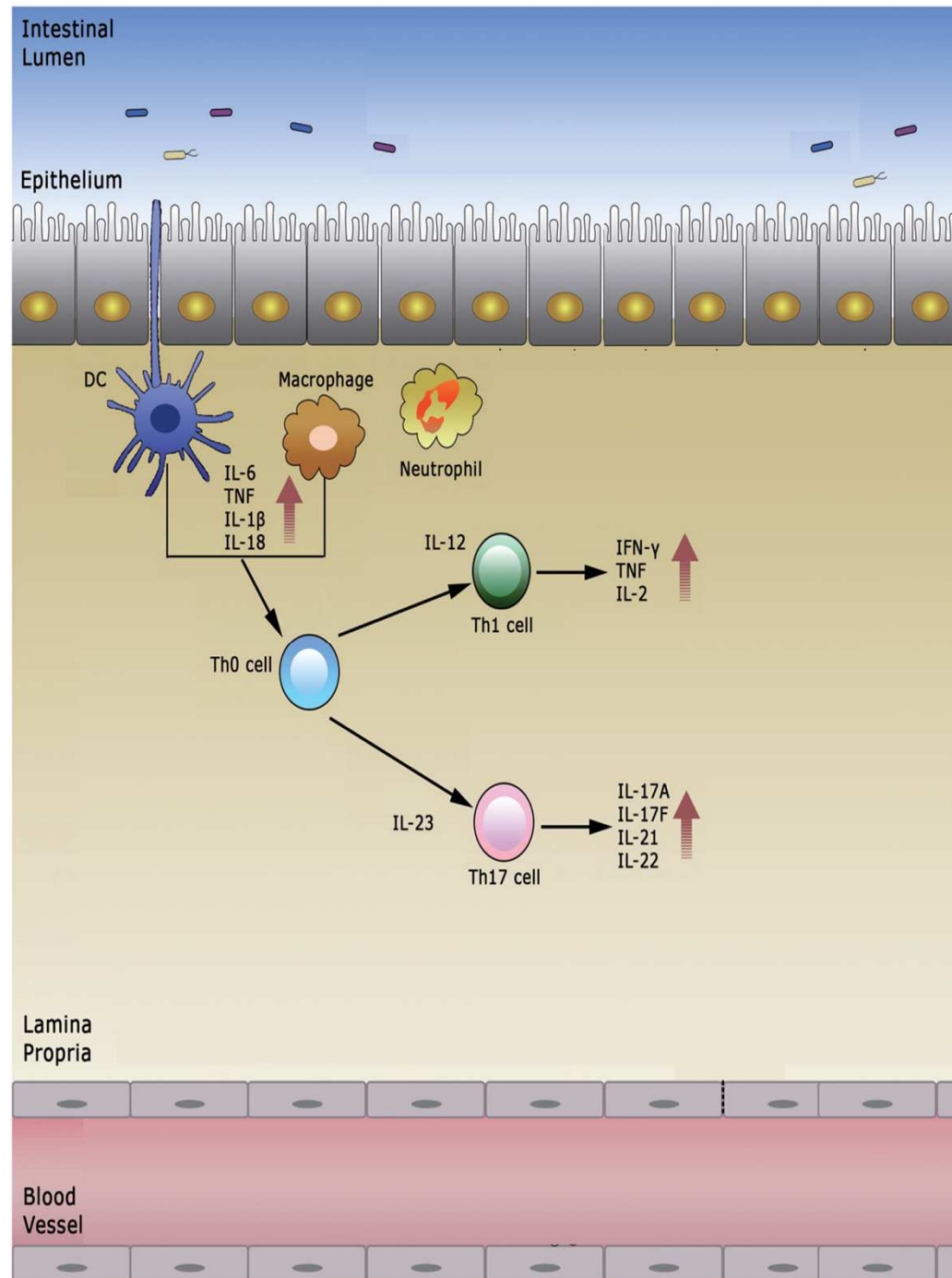
Cicatrisation,
barrières

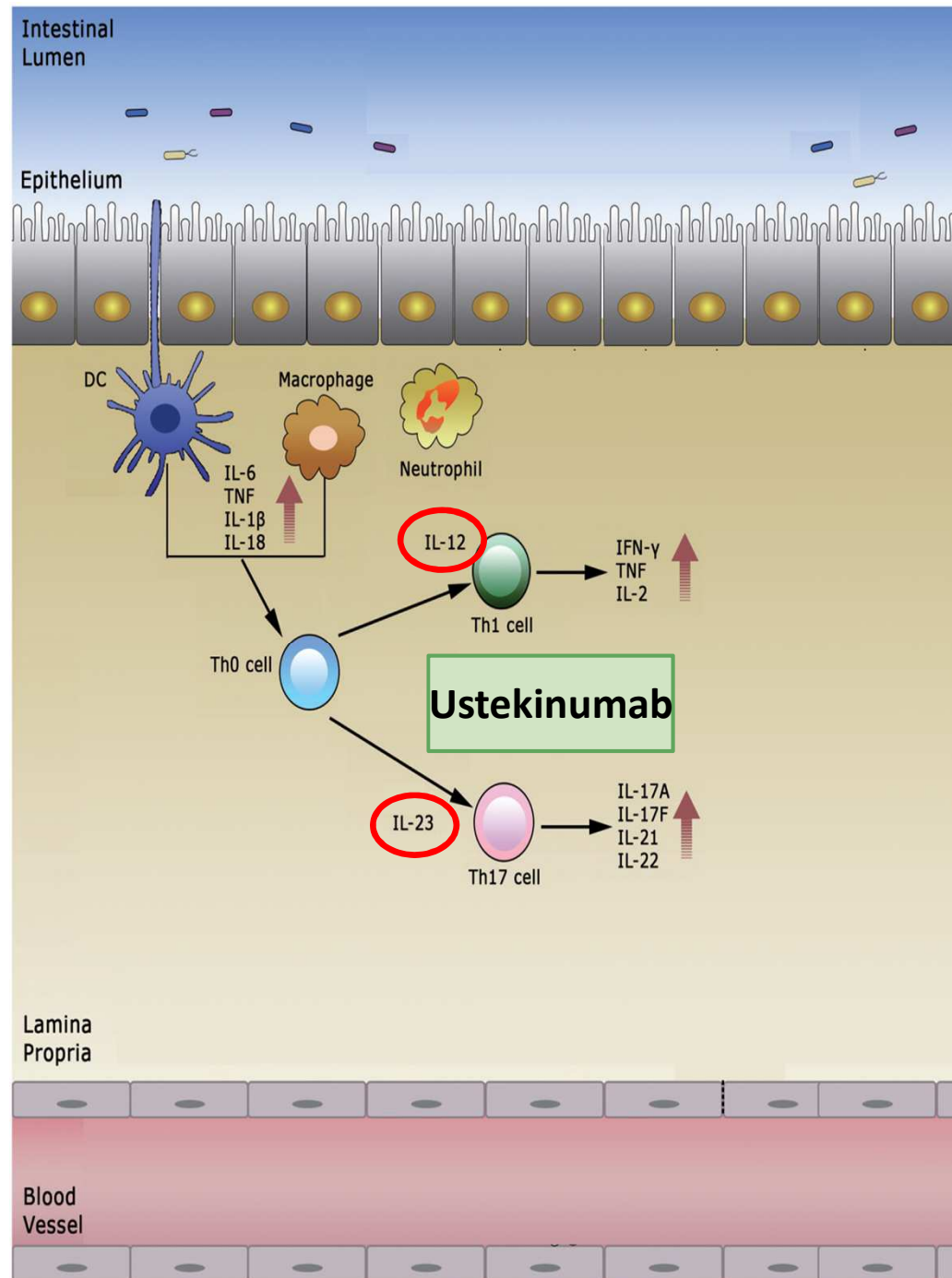






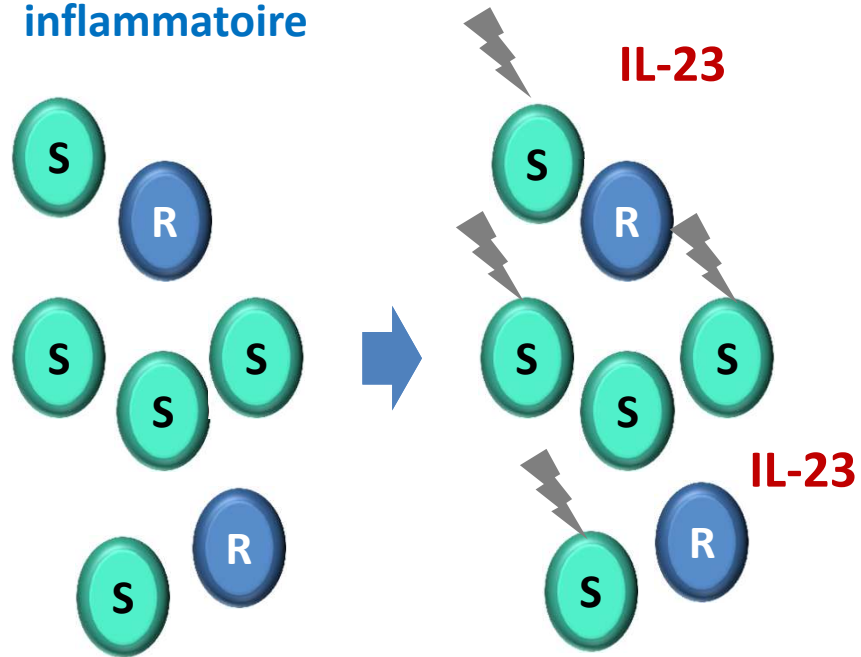




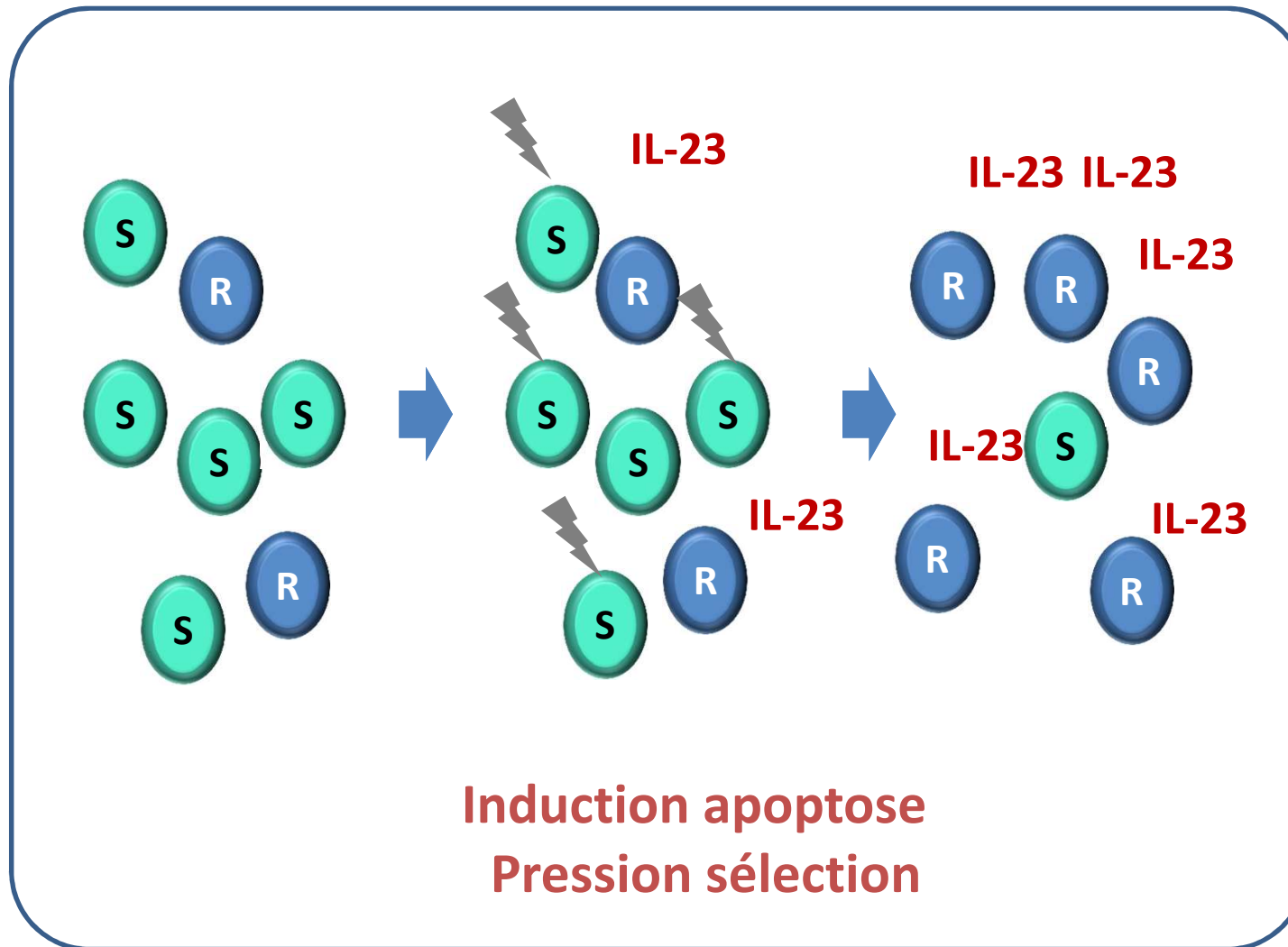


**Infiltrat T
inflammatoire**

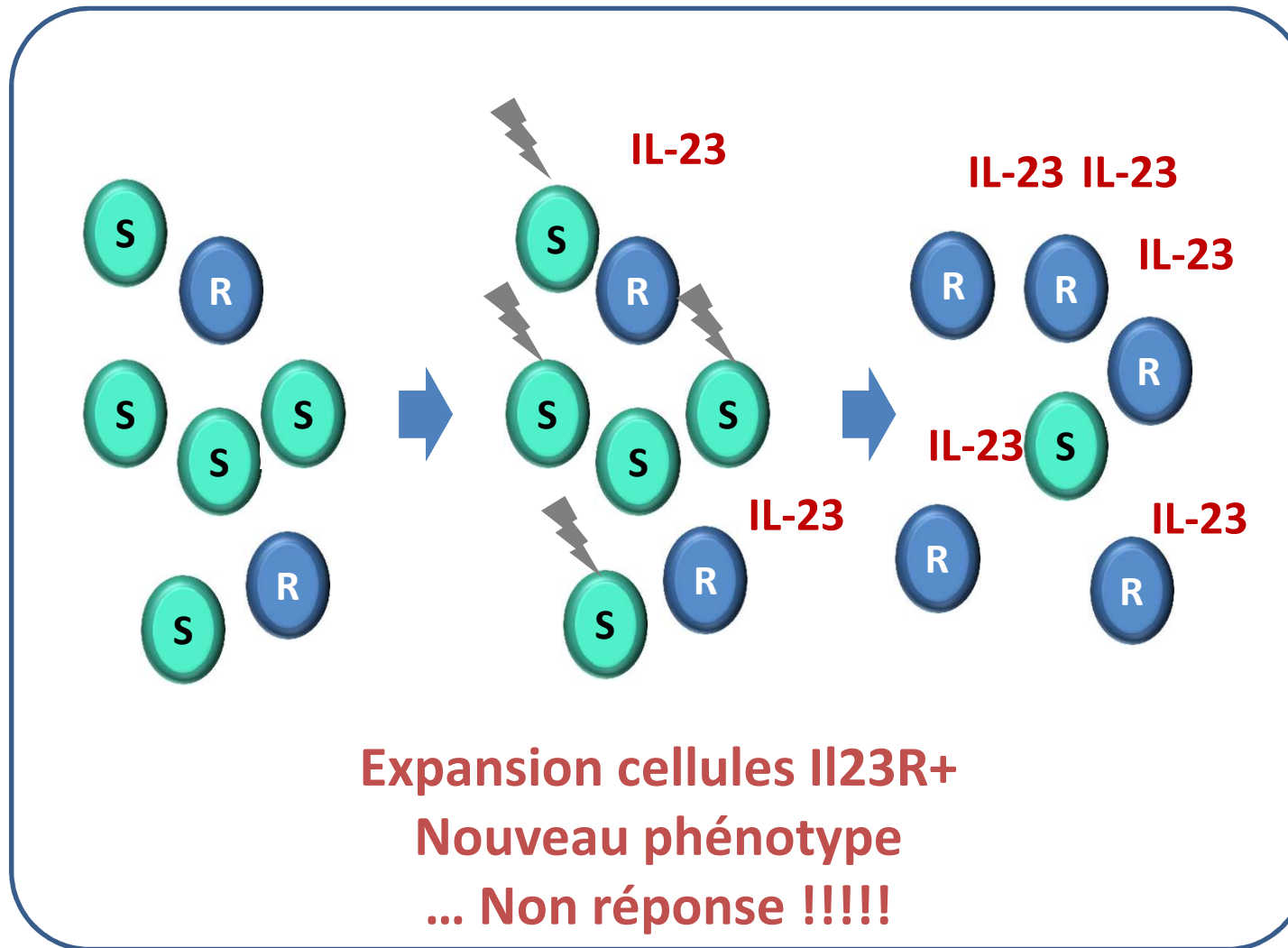
Anti-TNF

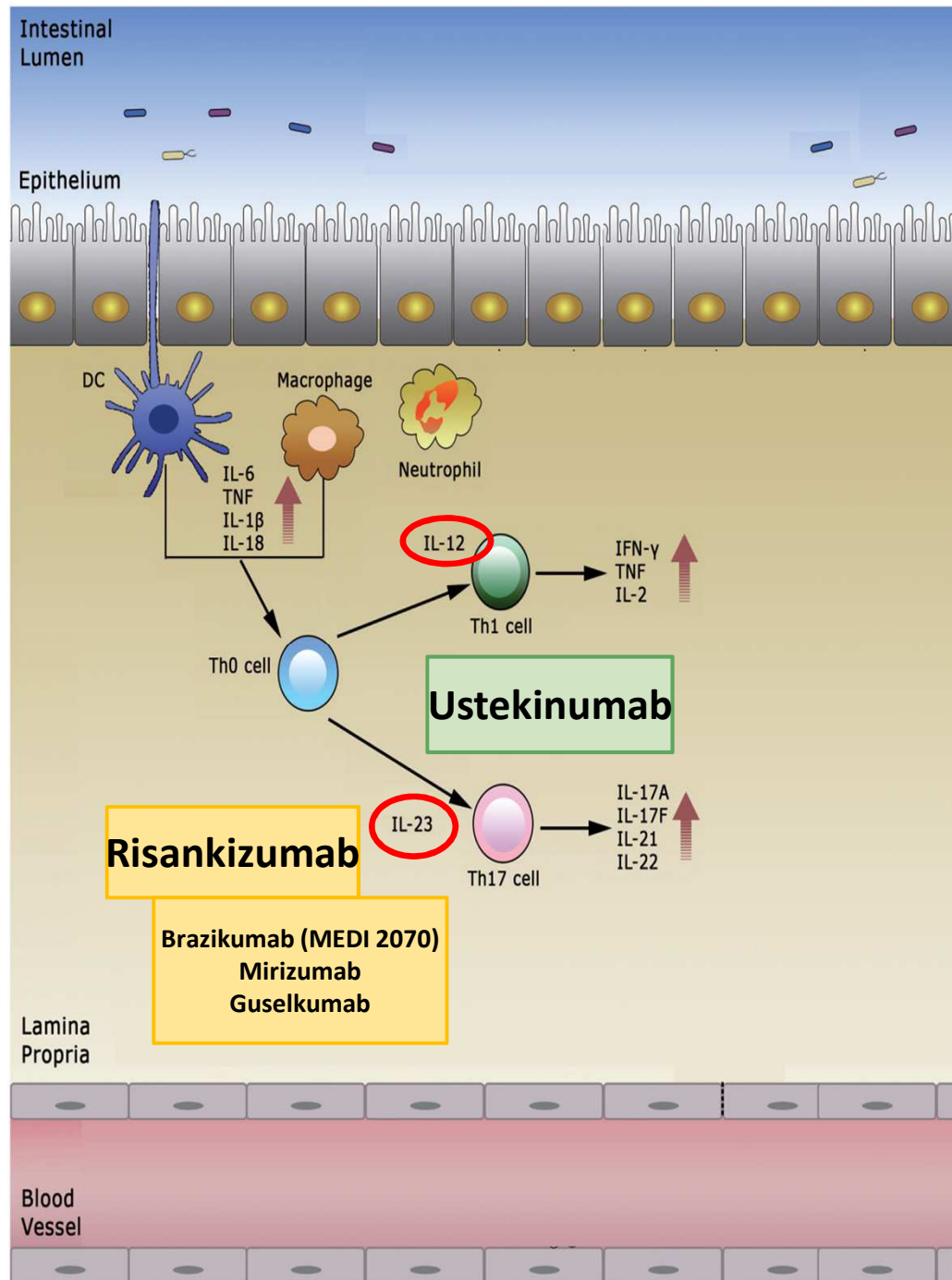


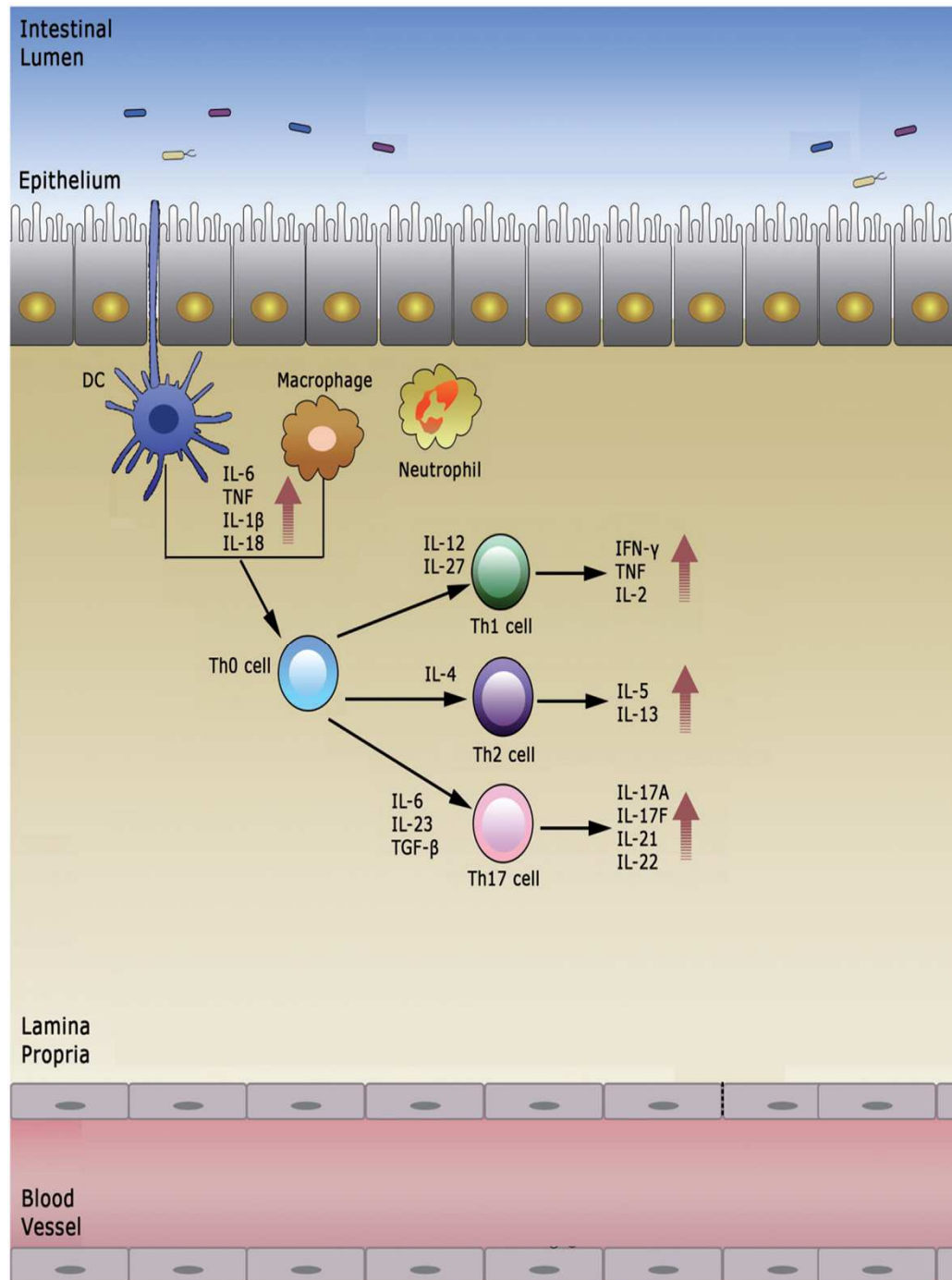
S: anti-TNF sensitive mTNF+ cell
R: anti-TNF résistant IL-23R+ cell

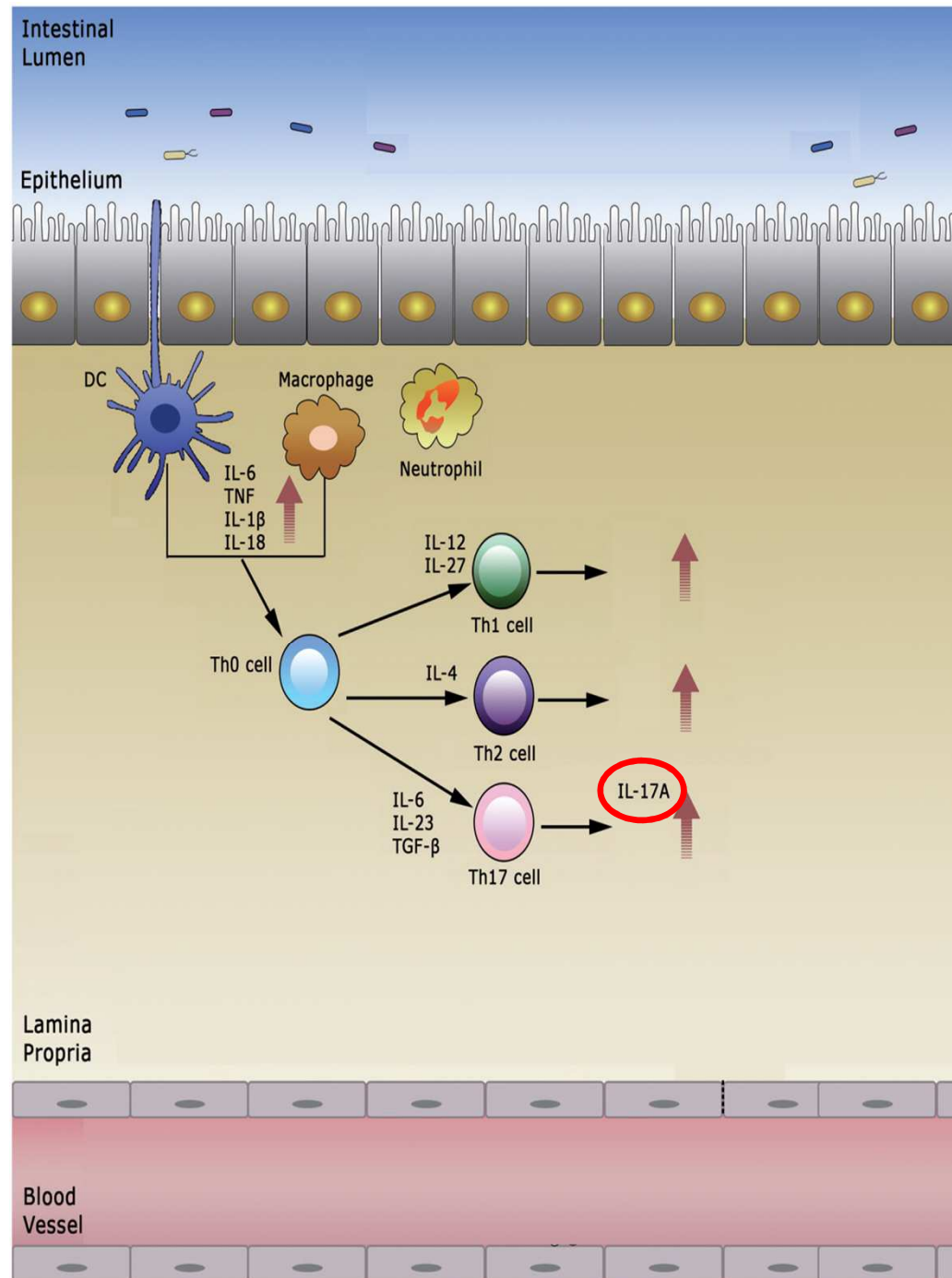


Résistance moléculaire IL23 à l'α-TNF

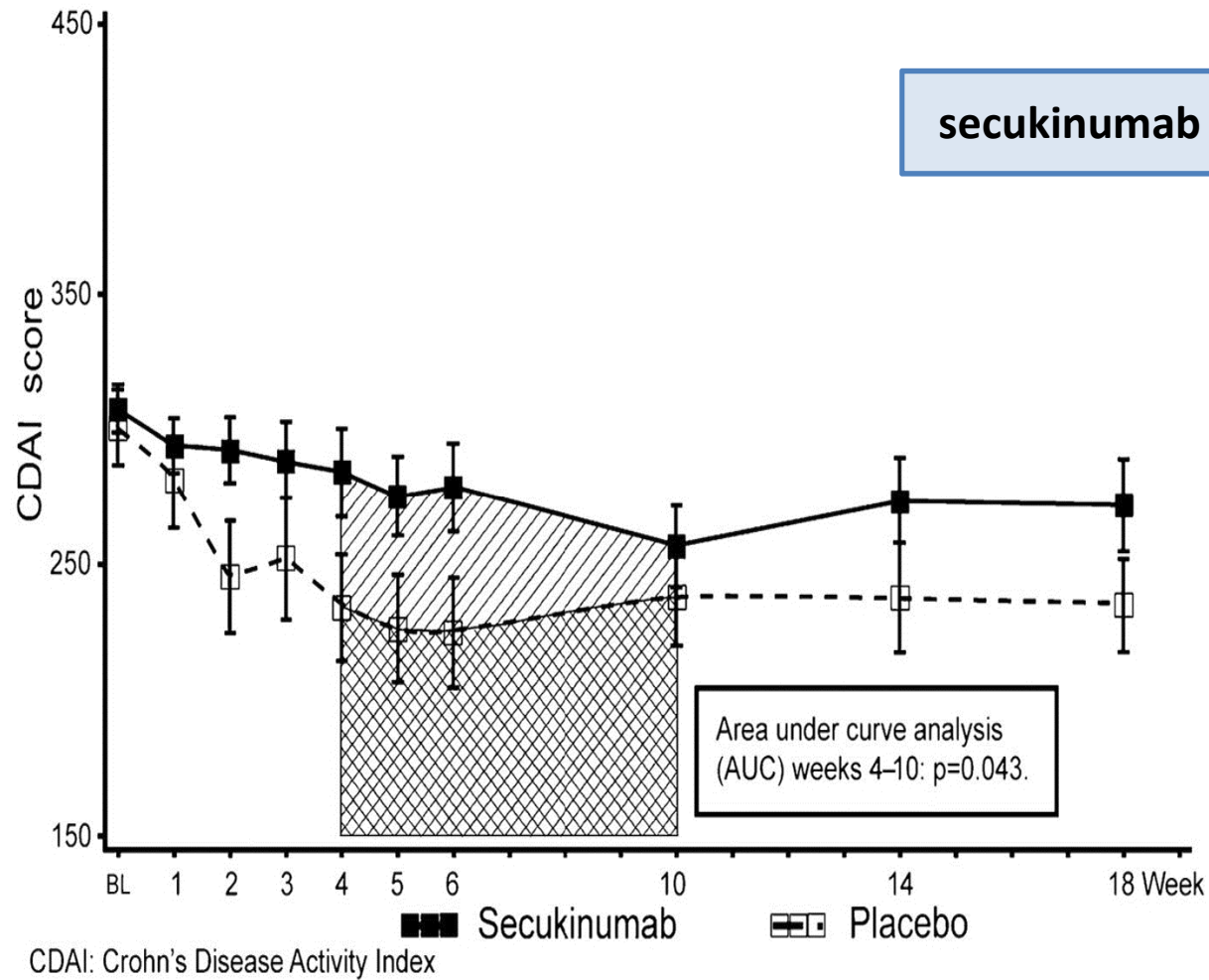


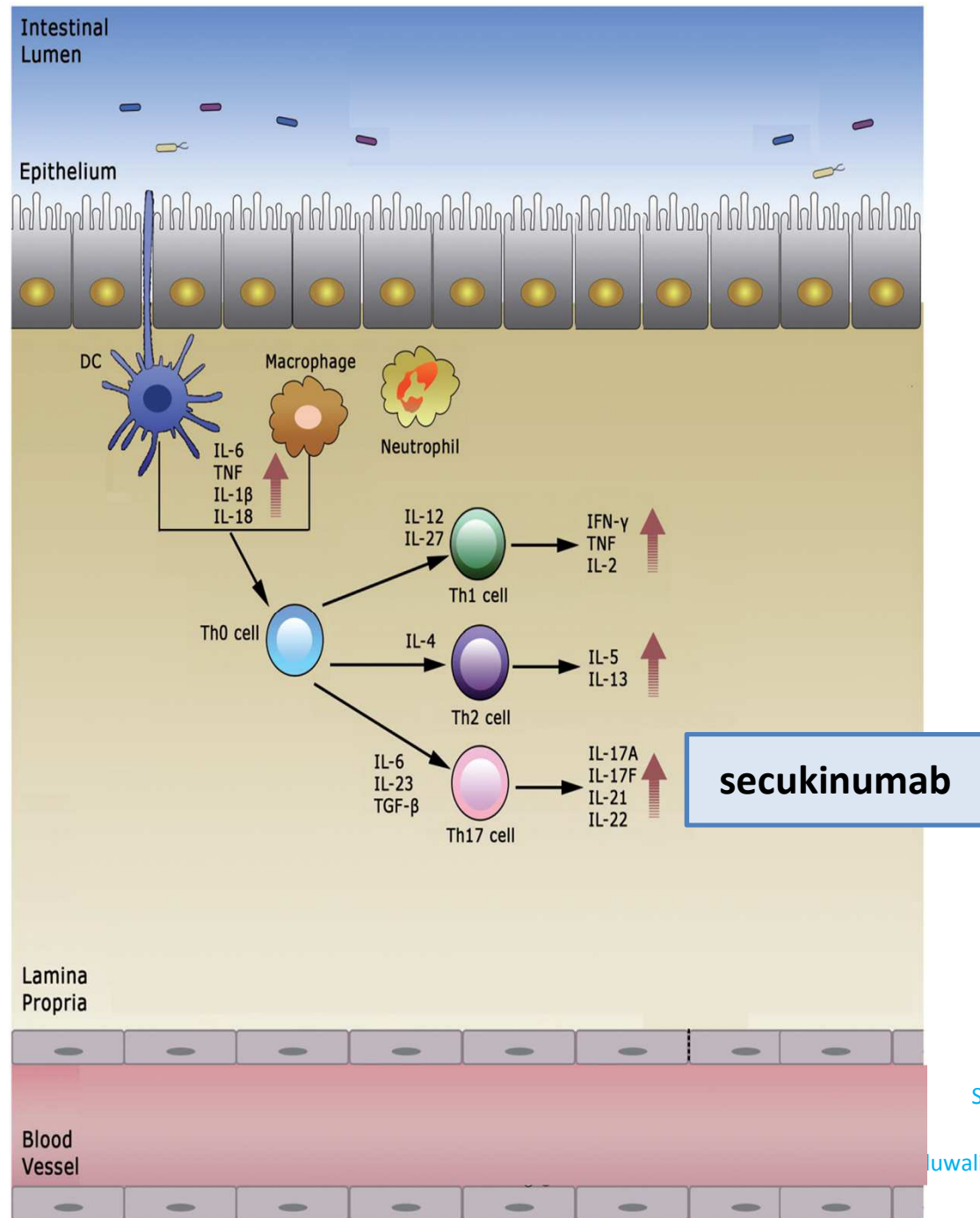






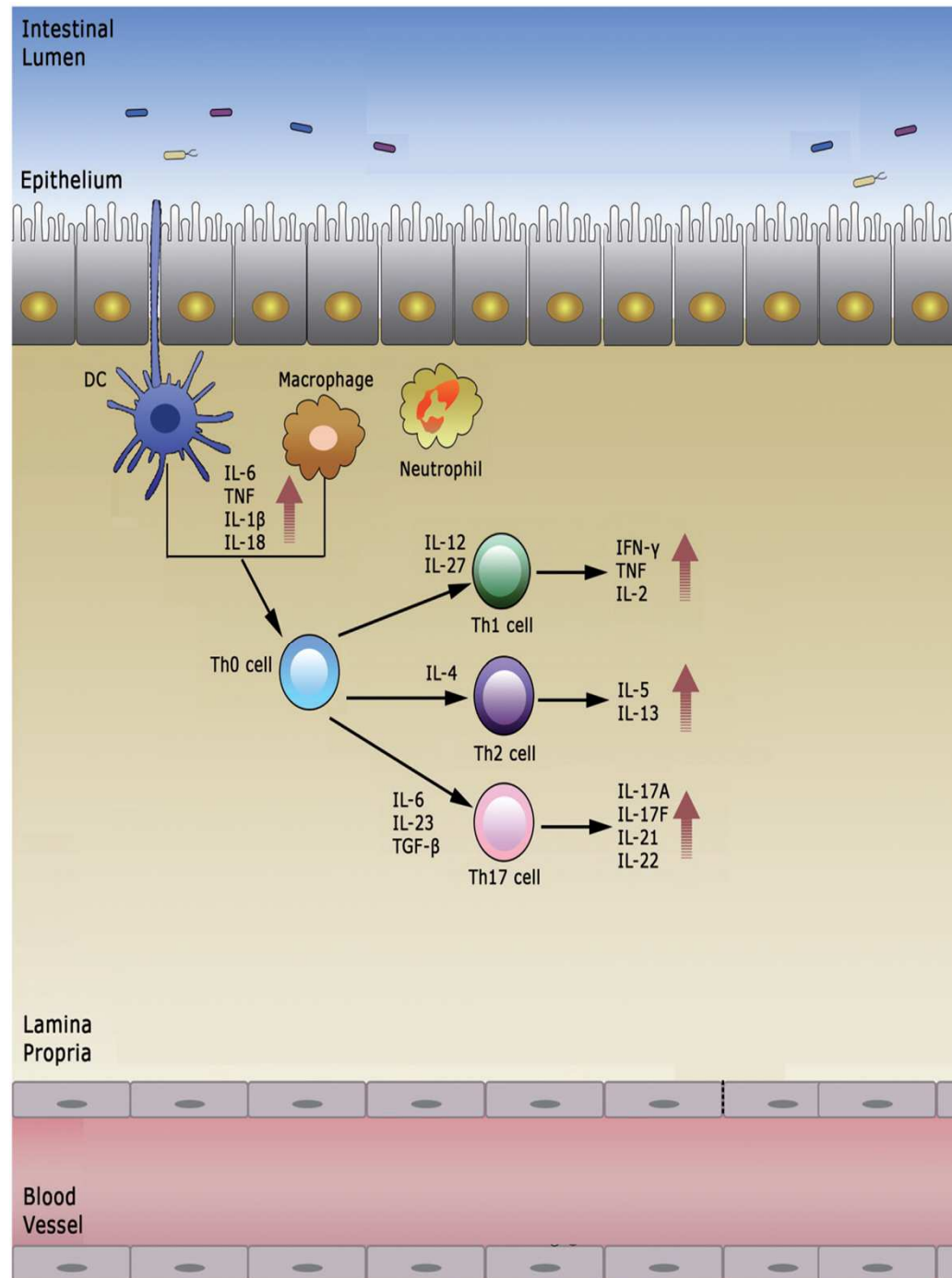
Blocage IL17A dans Crohn

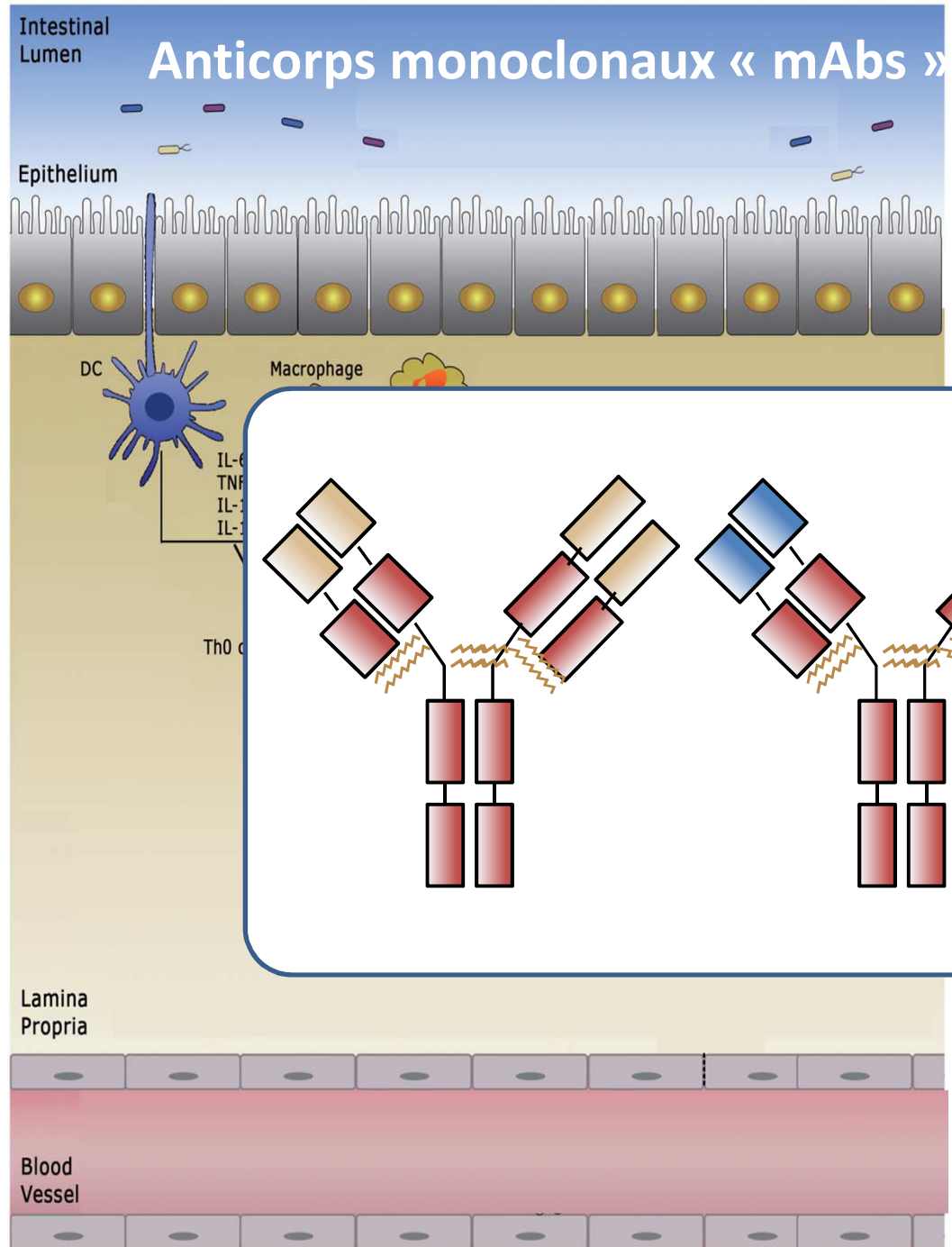


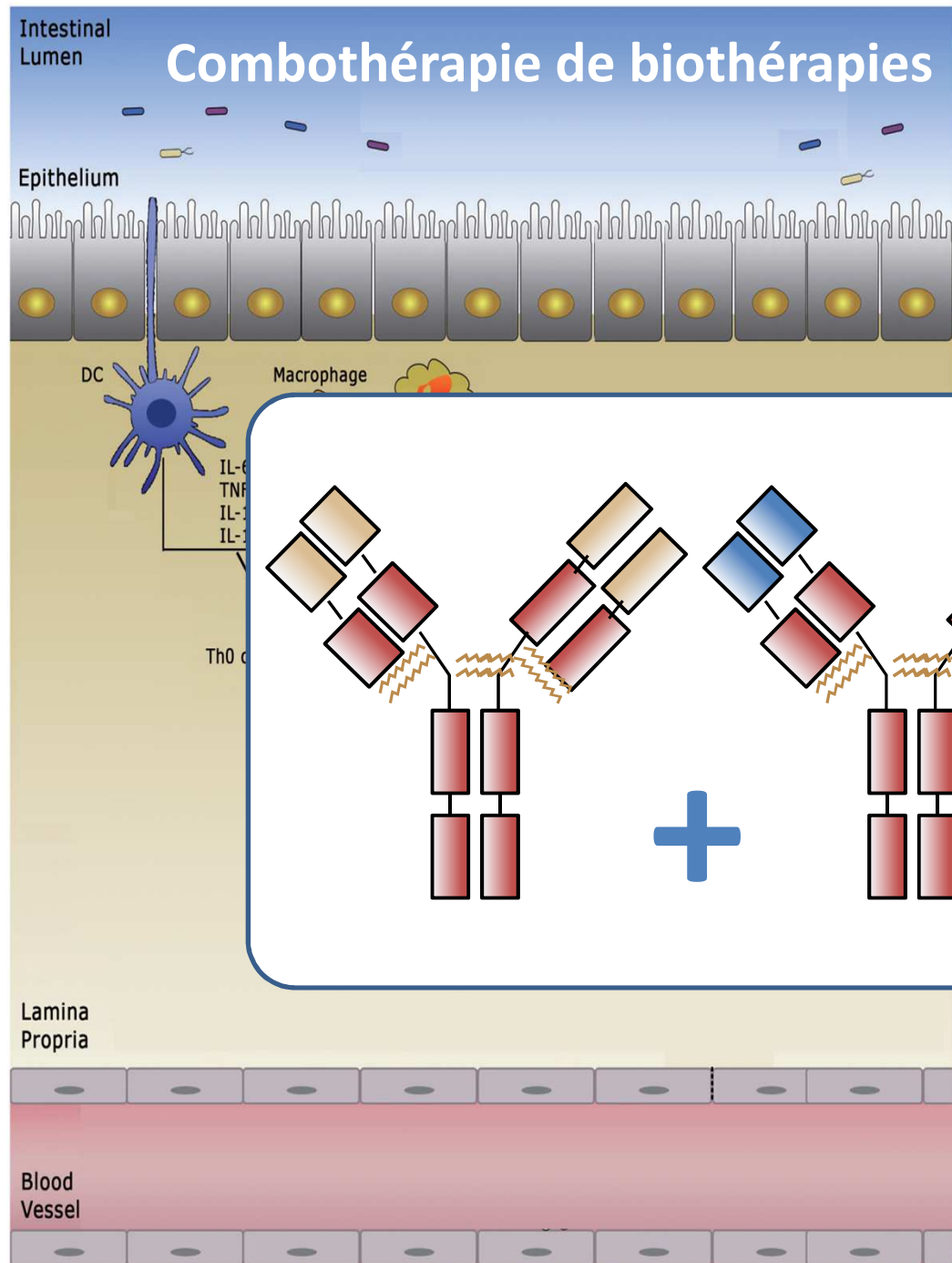


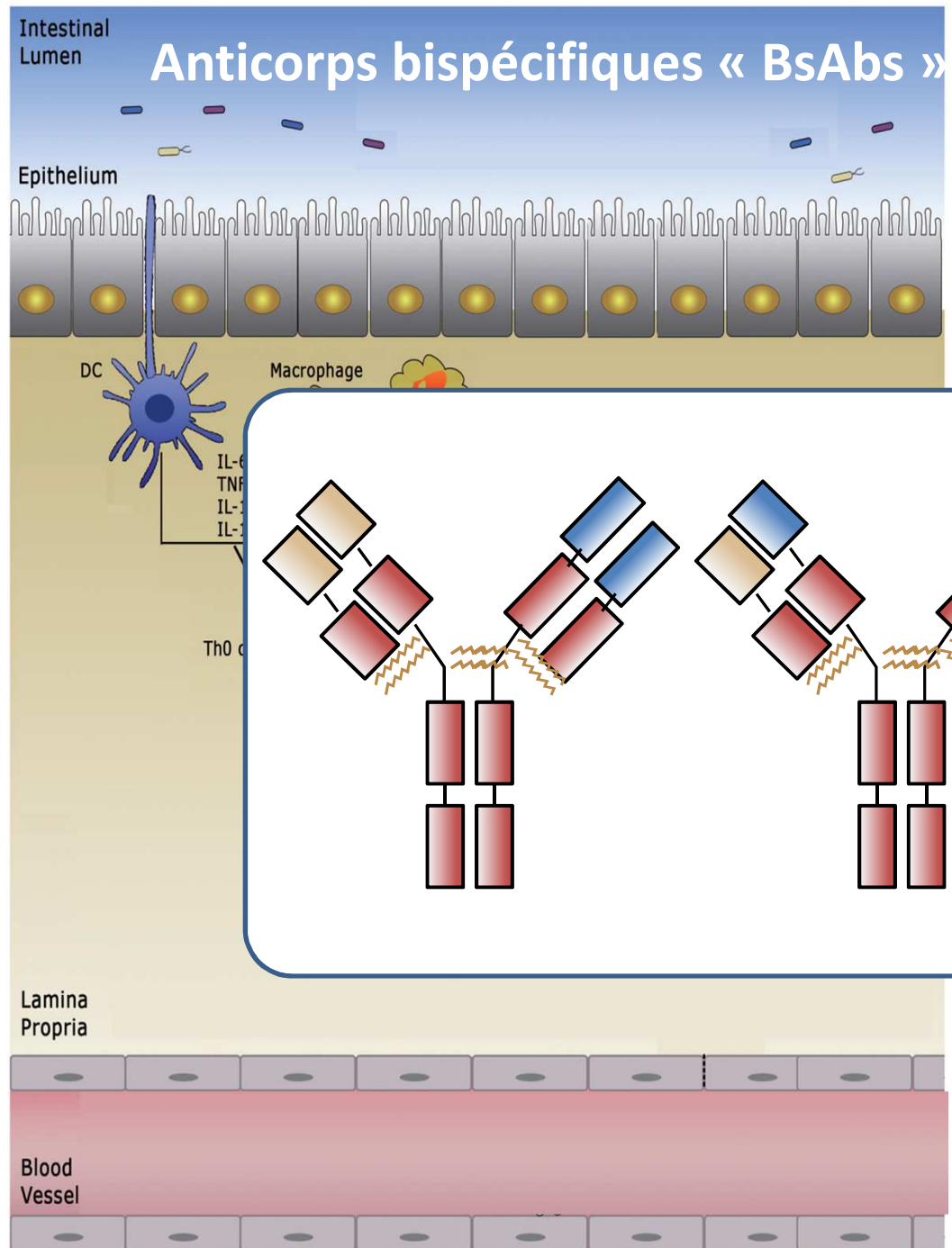
Schreider S et al. *Ann Rheum dis.*
2019 Jan 23.

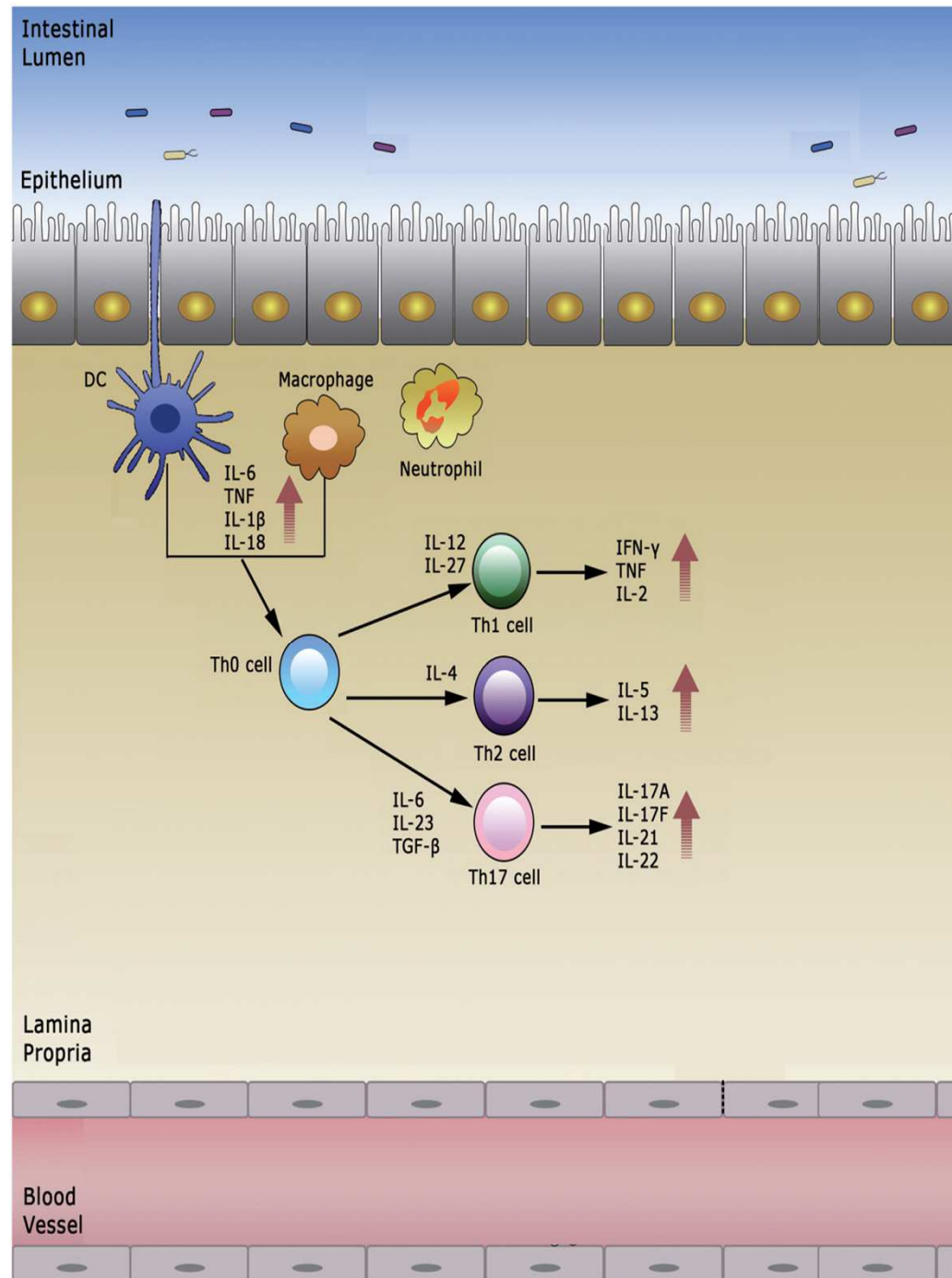
Iluwalia A et al. *Scand J Gastroenterol.*
2018;53:379-389.

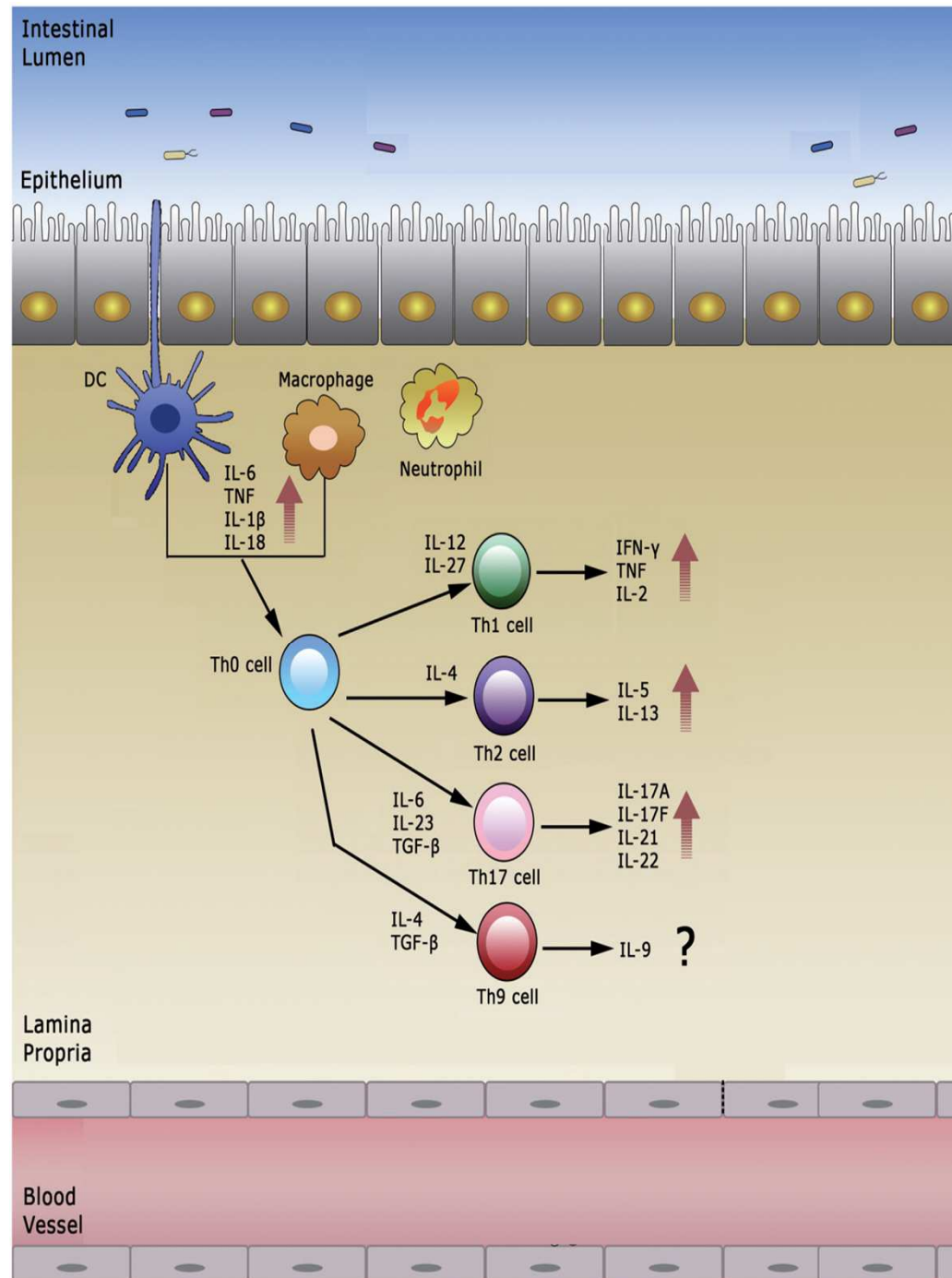


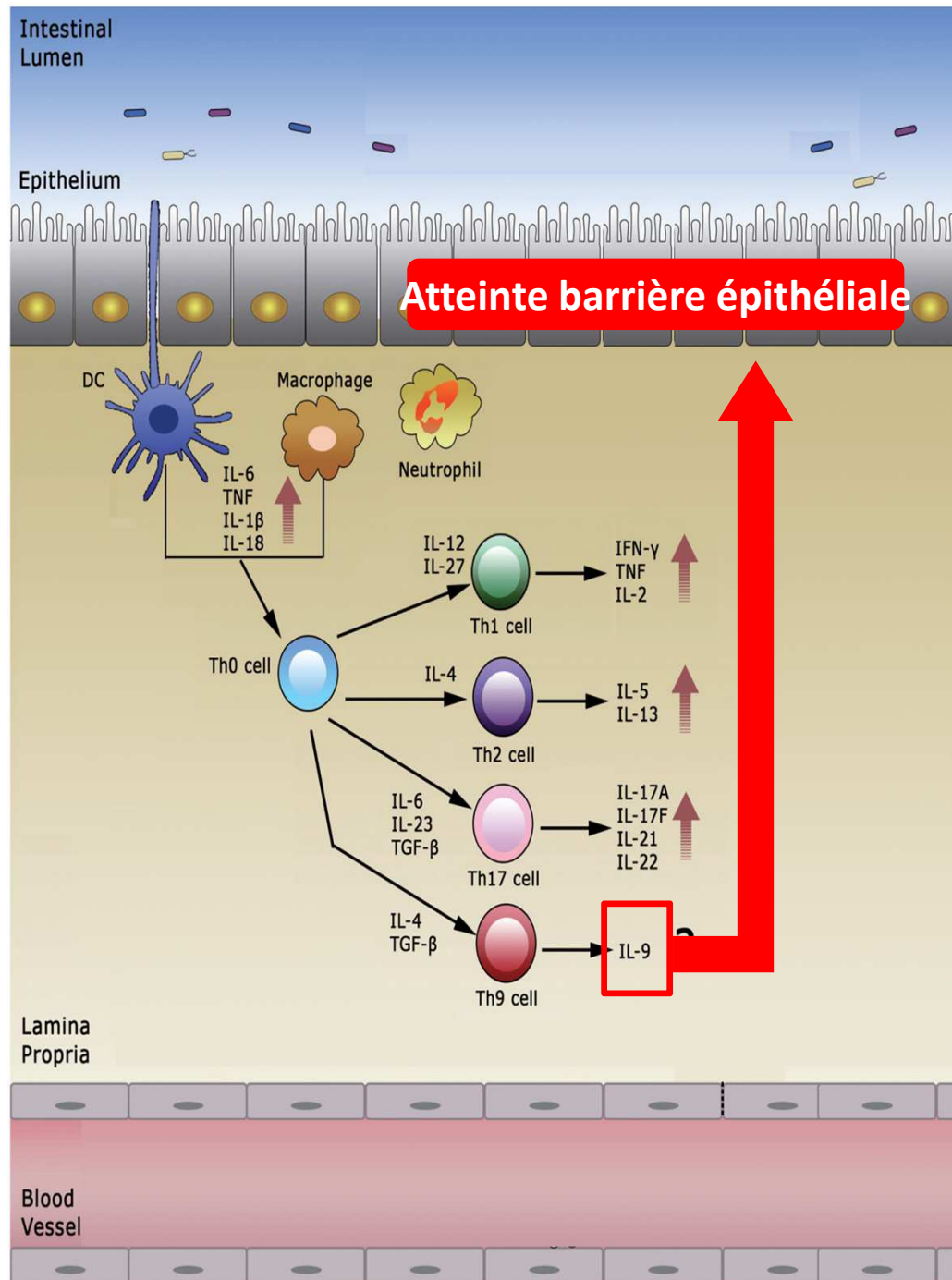




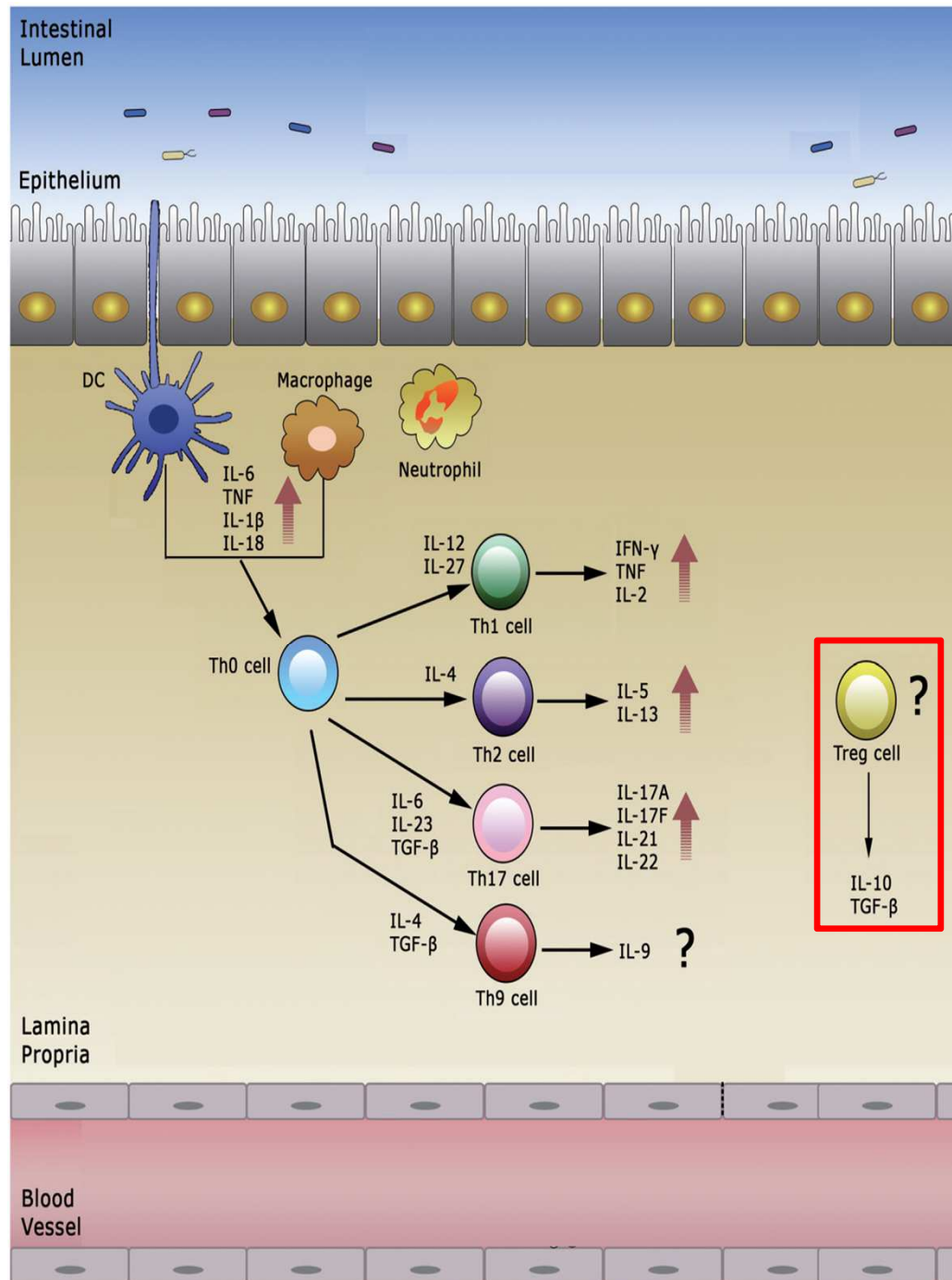


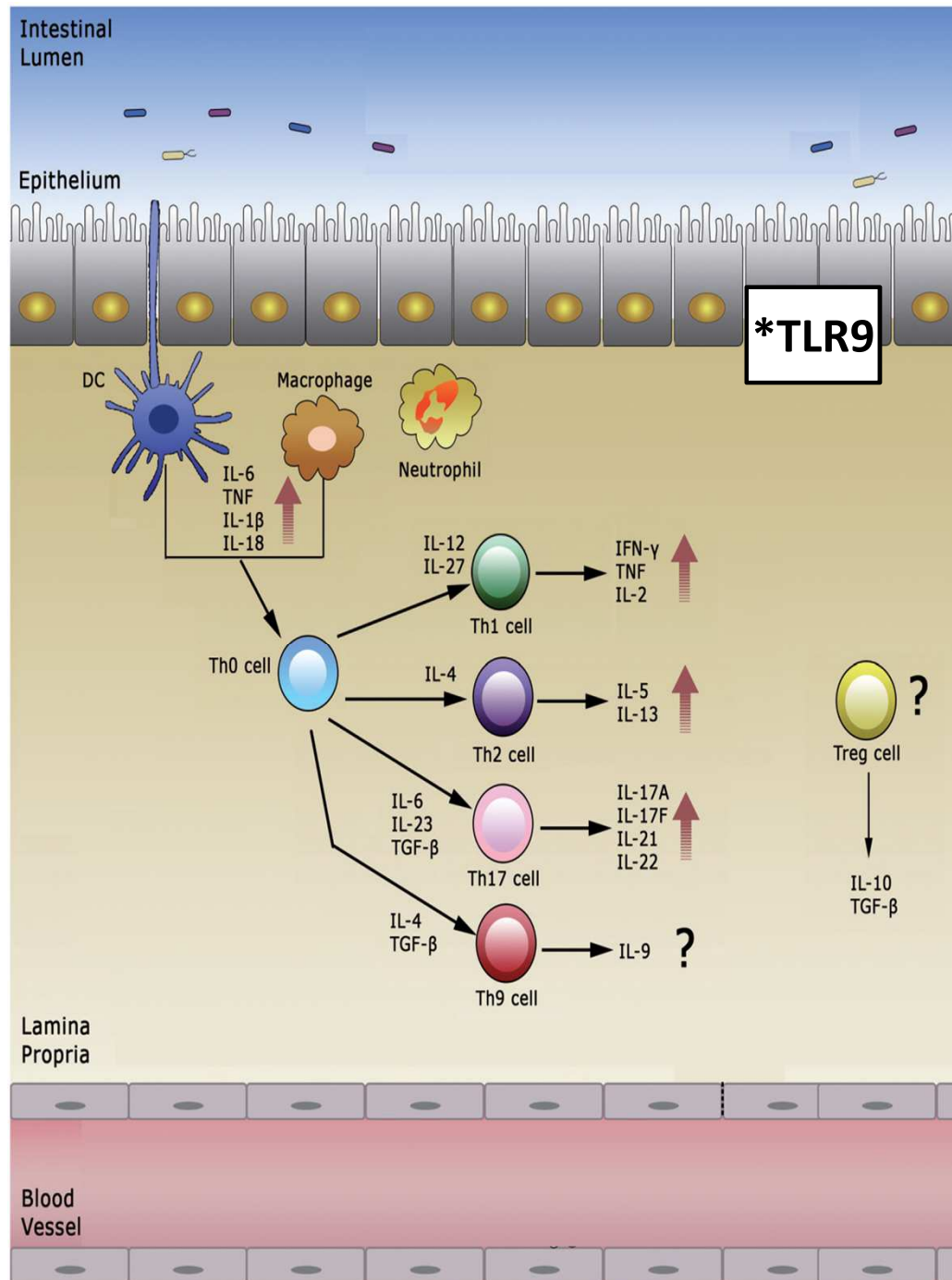


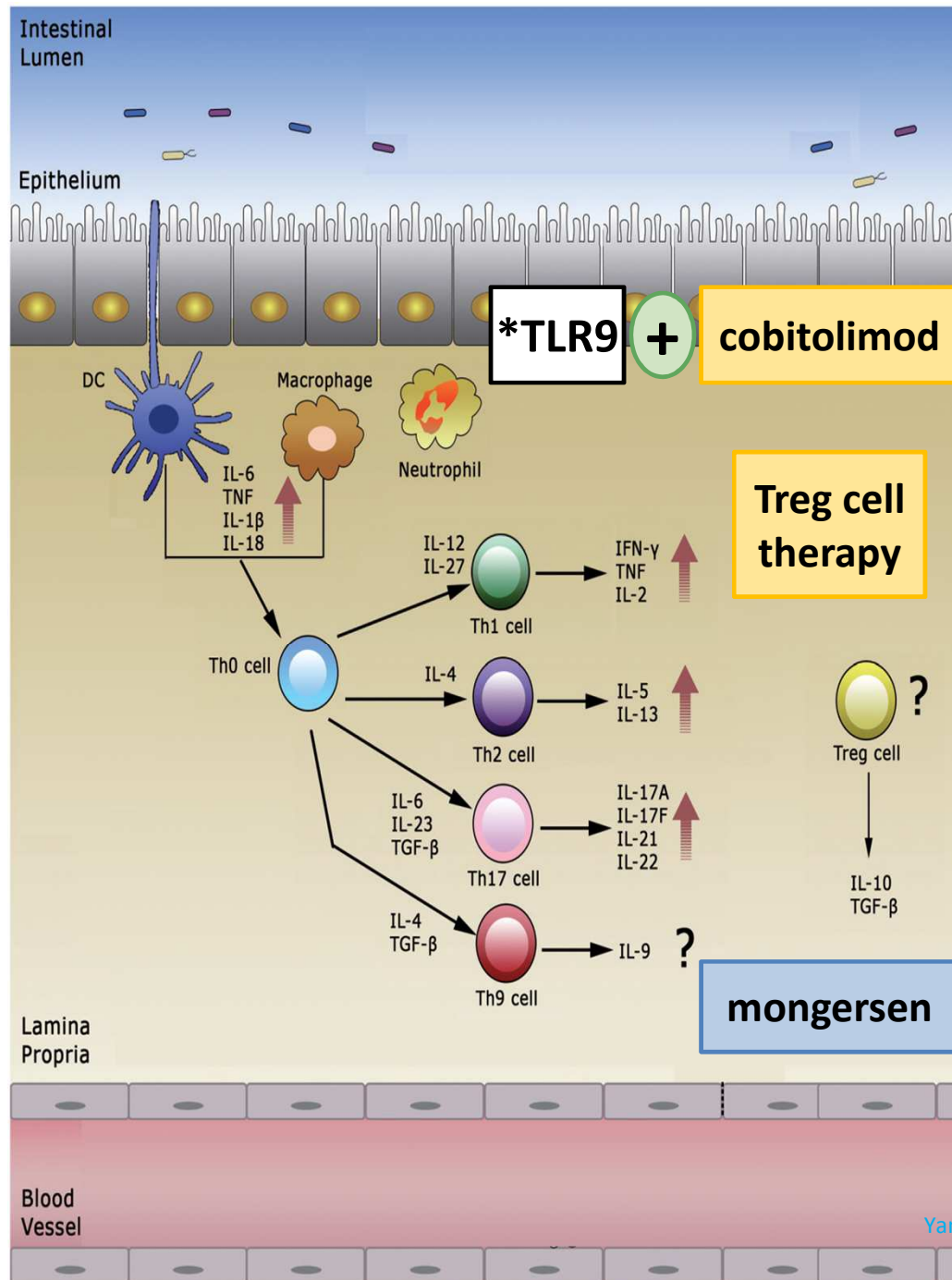


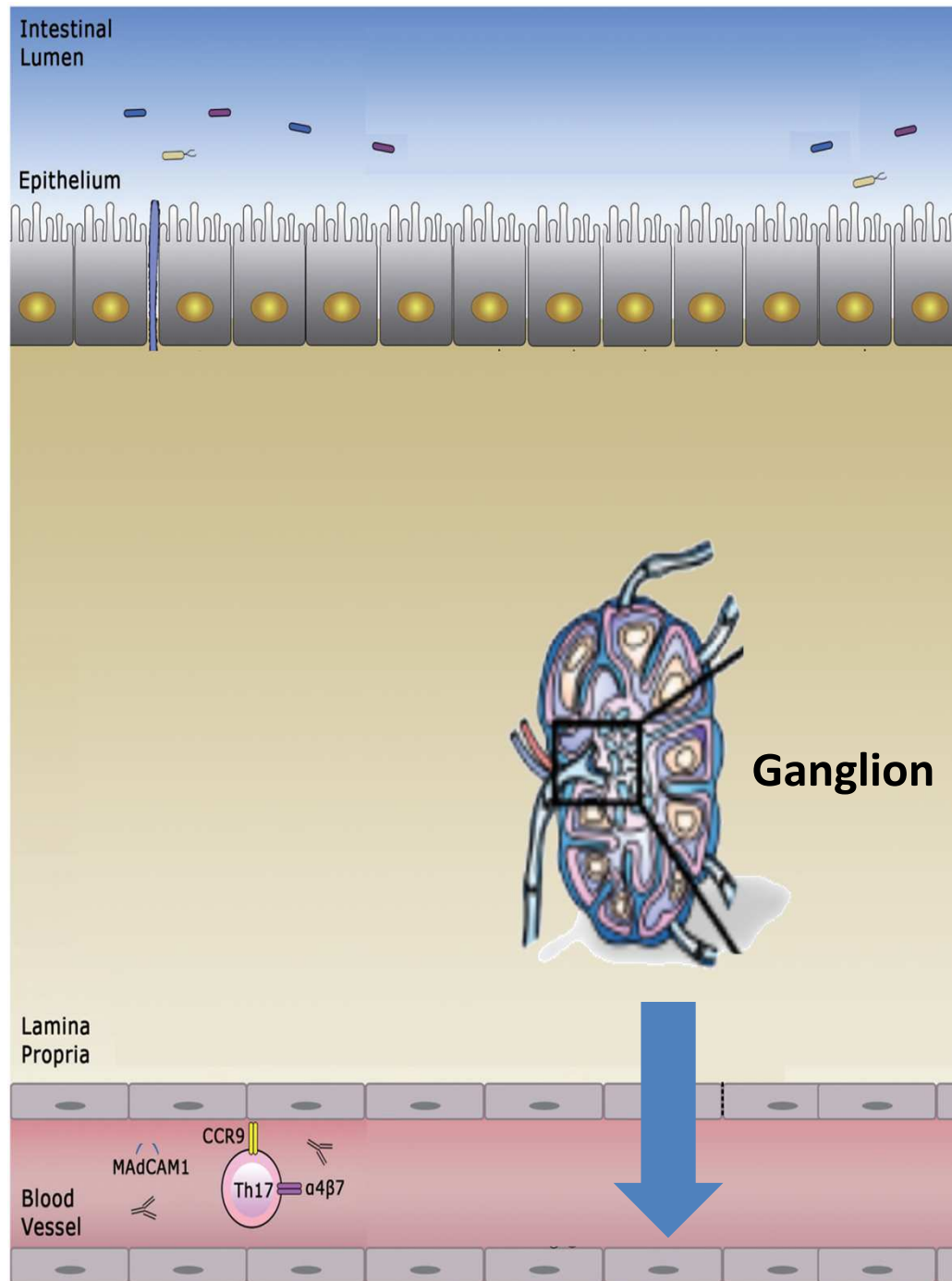


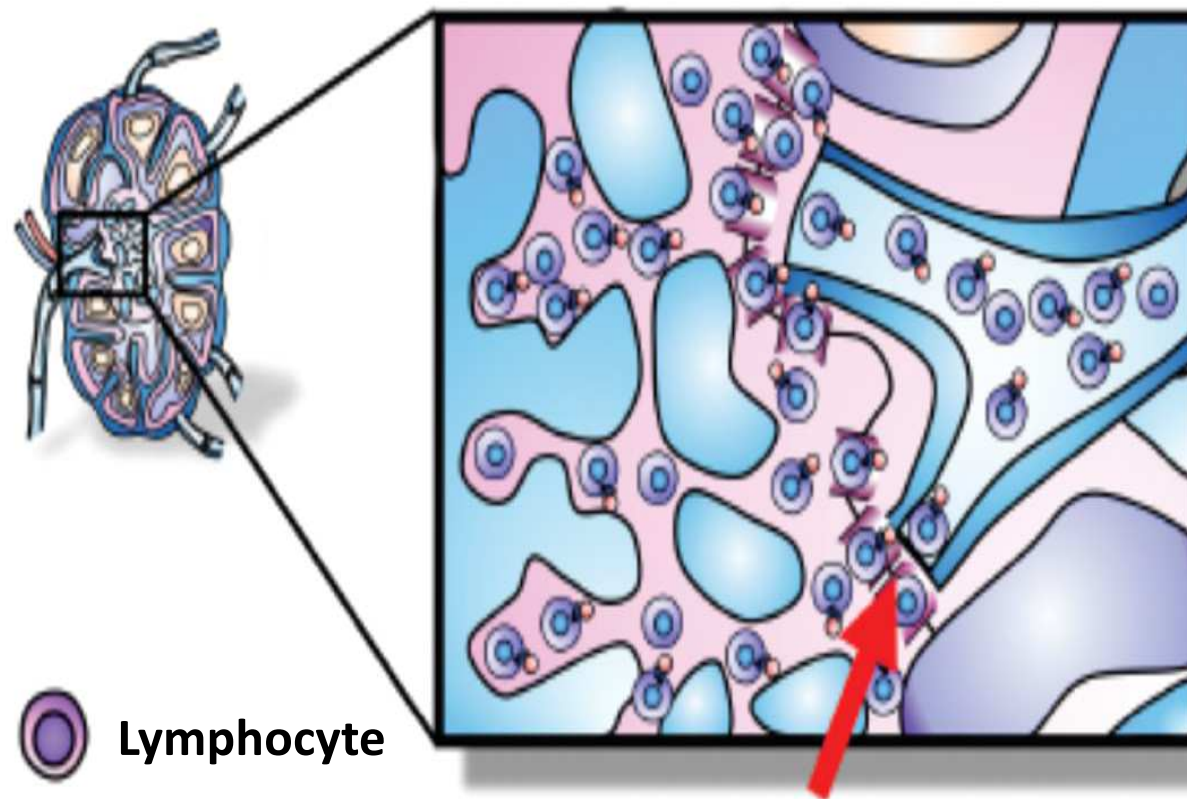
Nalleweg N et al. *Gut* 2015; 64:743-755
 Ahluwalia A et al. *Scand J Gastroenterol.*
 2018;53:379-389.







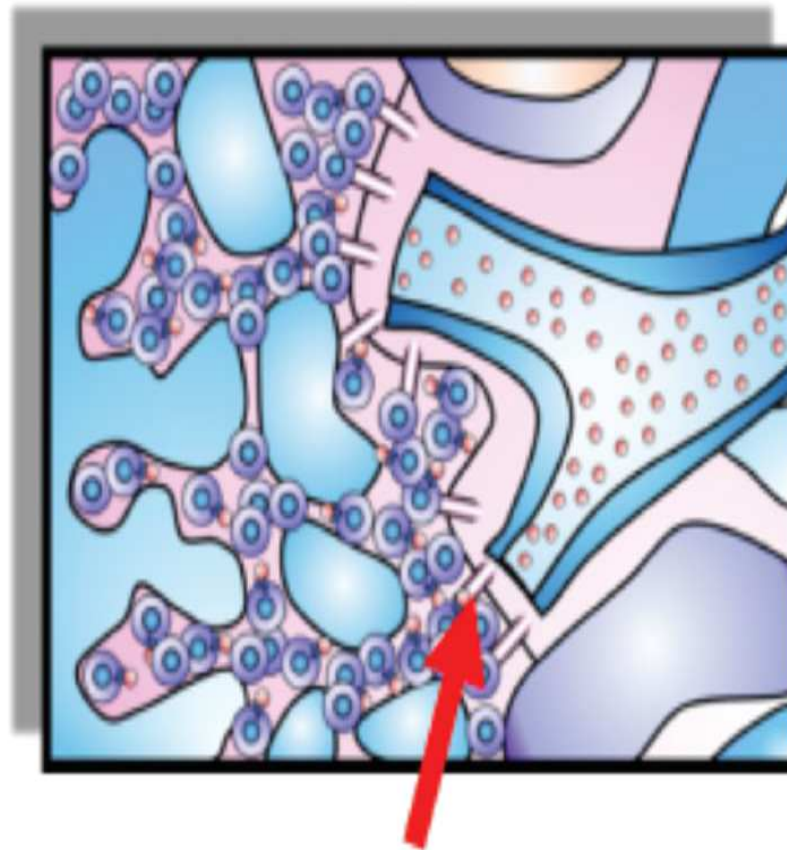
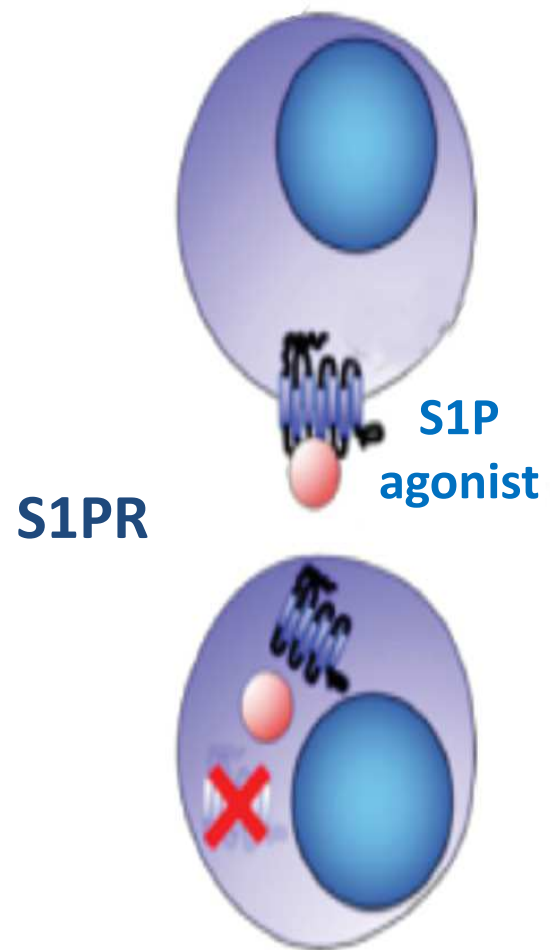


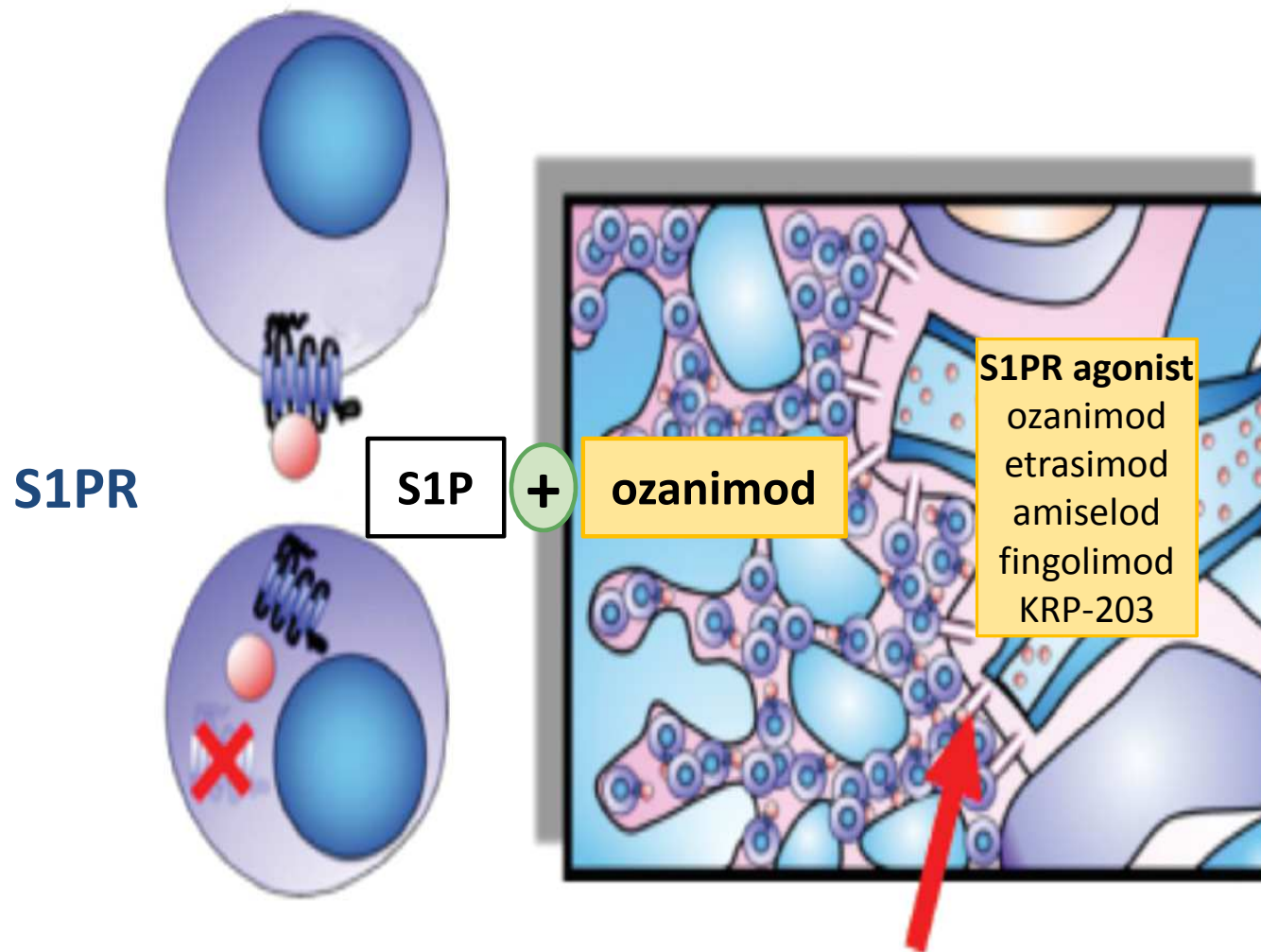


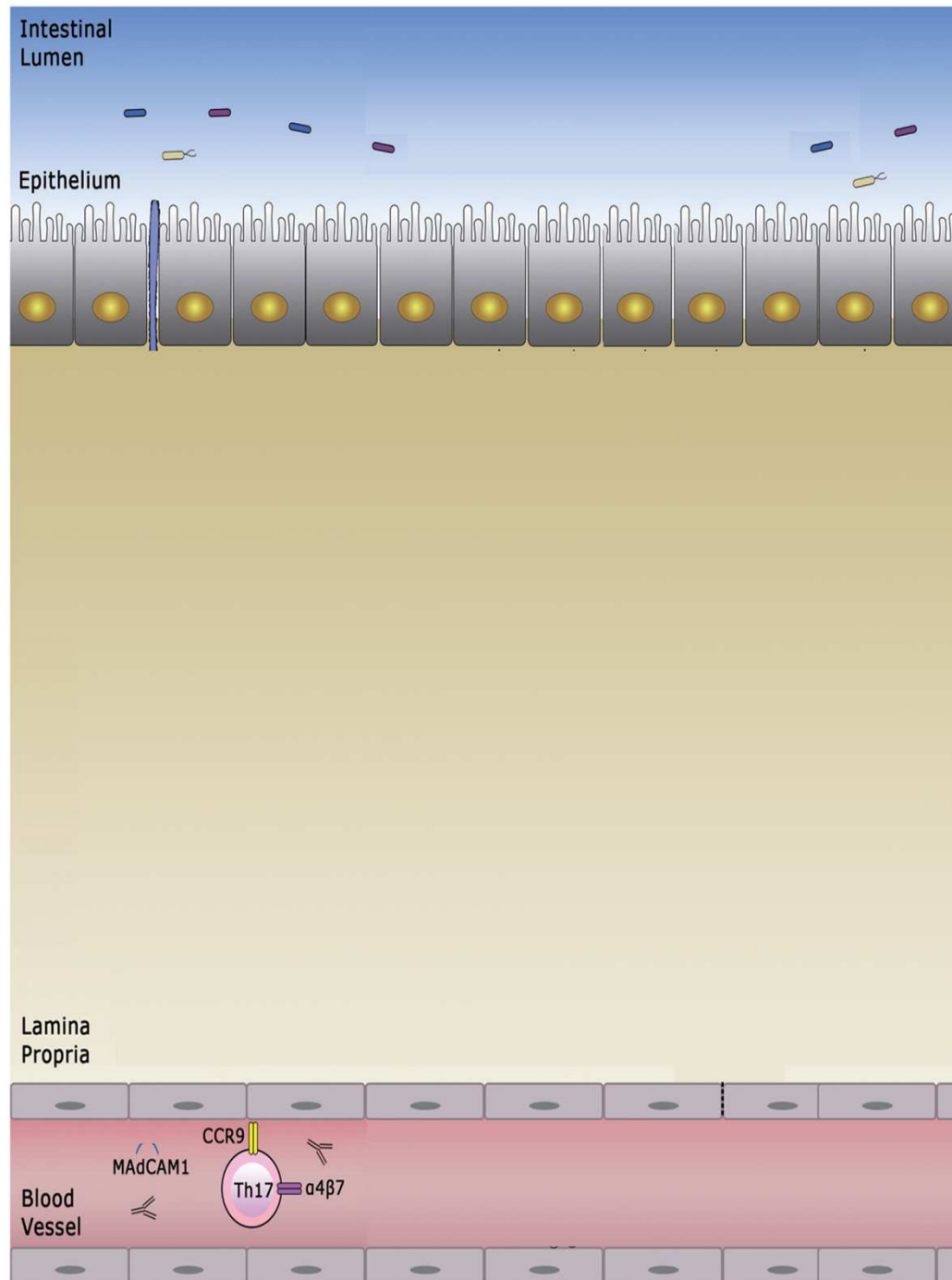
Lymphocyte

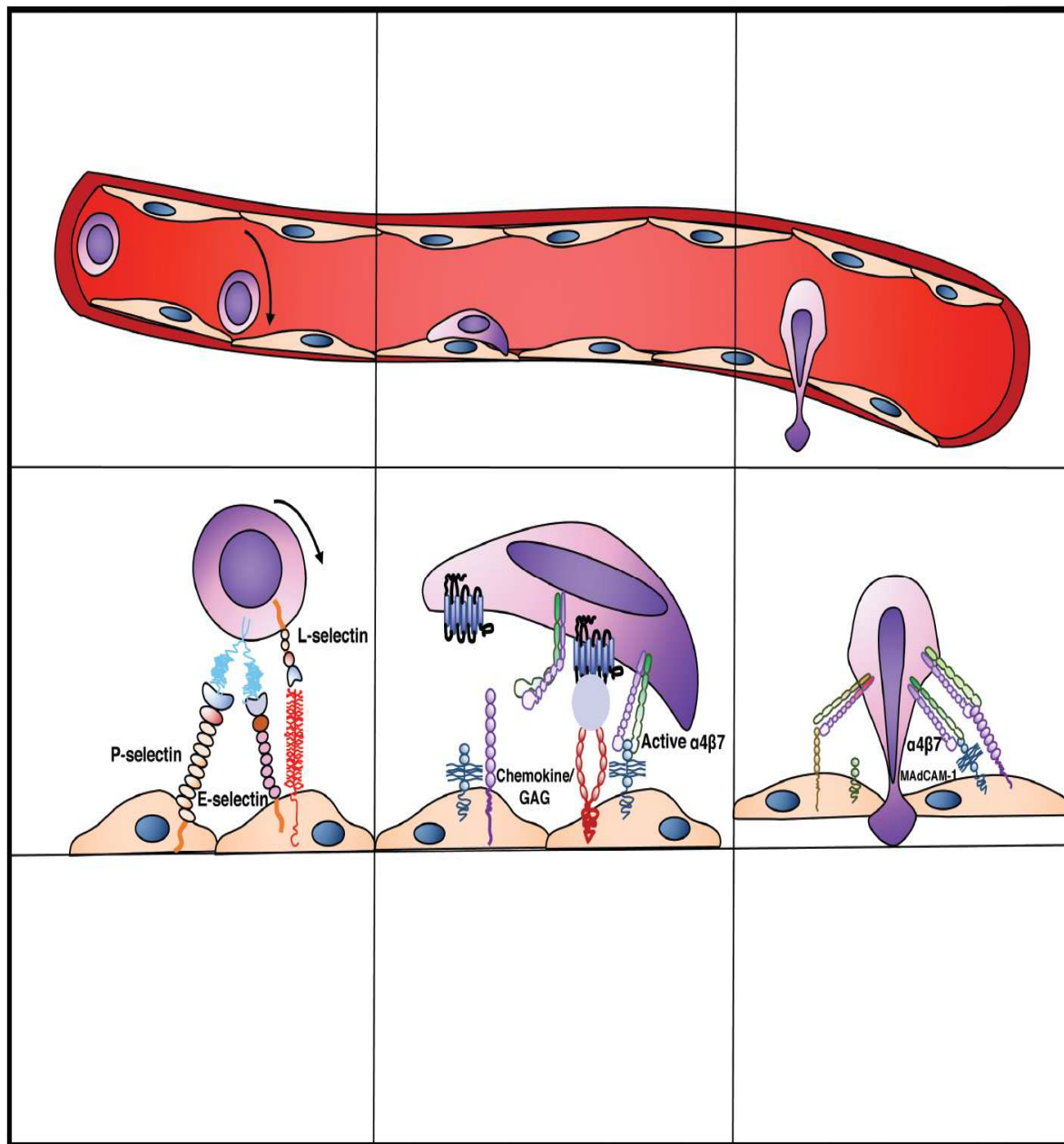


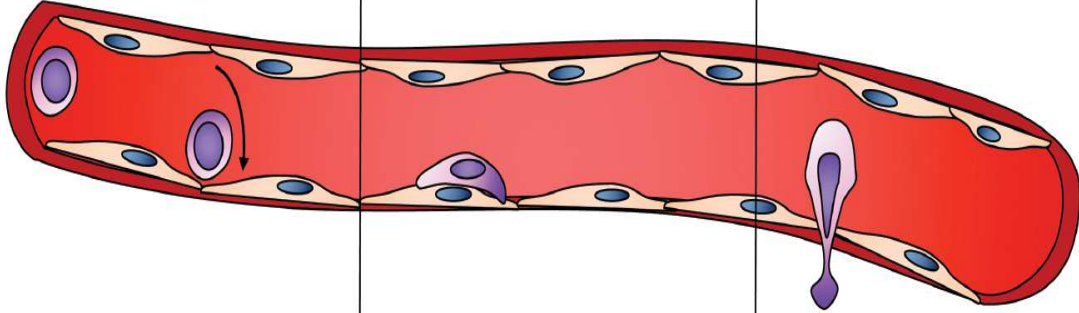
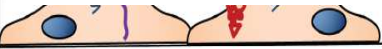
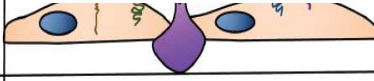
S1P



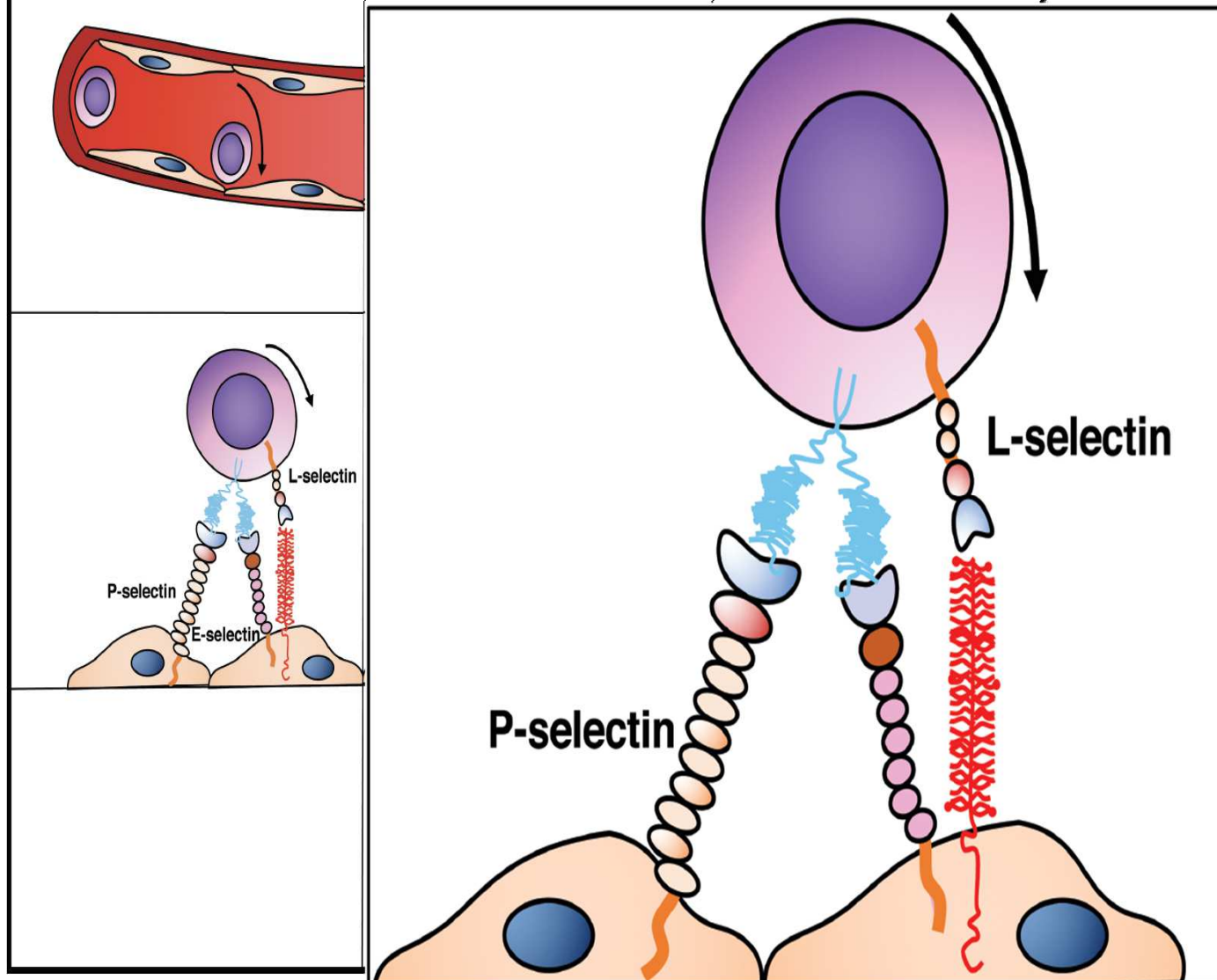




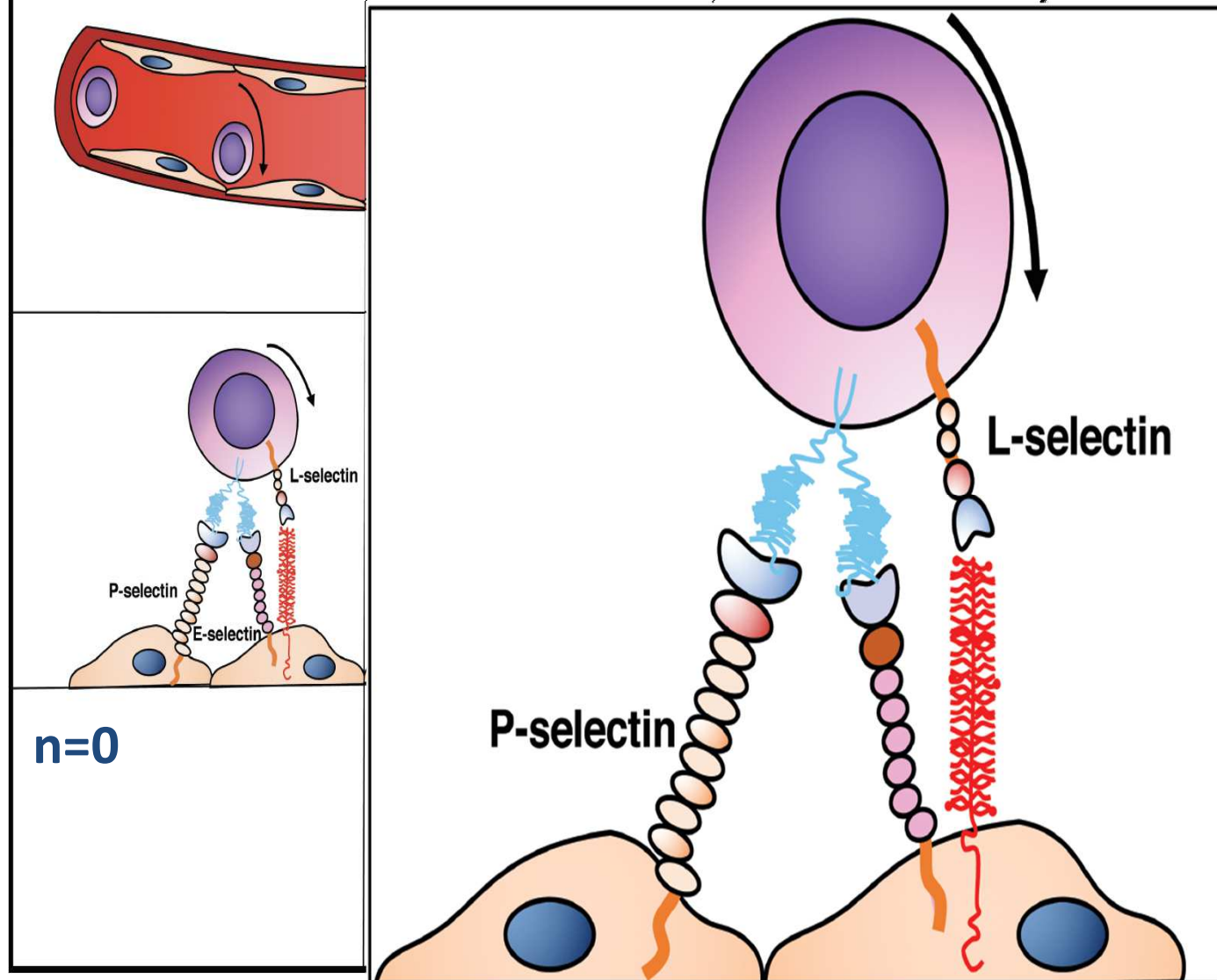


1. Rouler / agripper	2. Se positionner	3. Migrer
 The diagram illustrates the three steps of macrophage migration across the intestinal mucosa. In the first step, a macrophage is shown rolling along the surface of the mucosal cells, indicated by an arrow. In the second step, the macrophage is positioned and beginning to adhere. In the third step, the macrophage has fully adhered and is migrating into the tissue.		
Cibles		
		
Traitements		

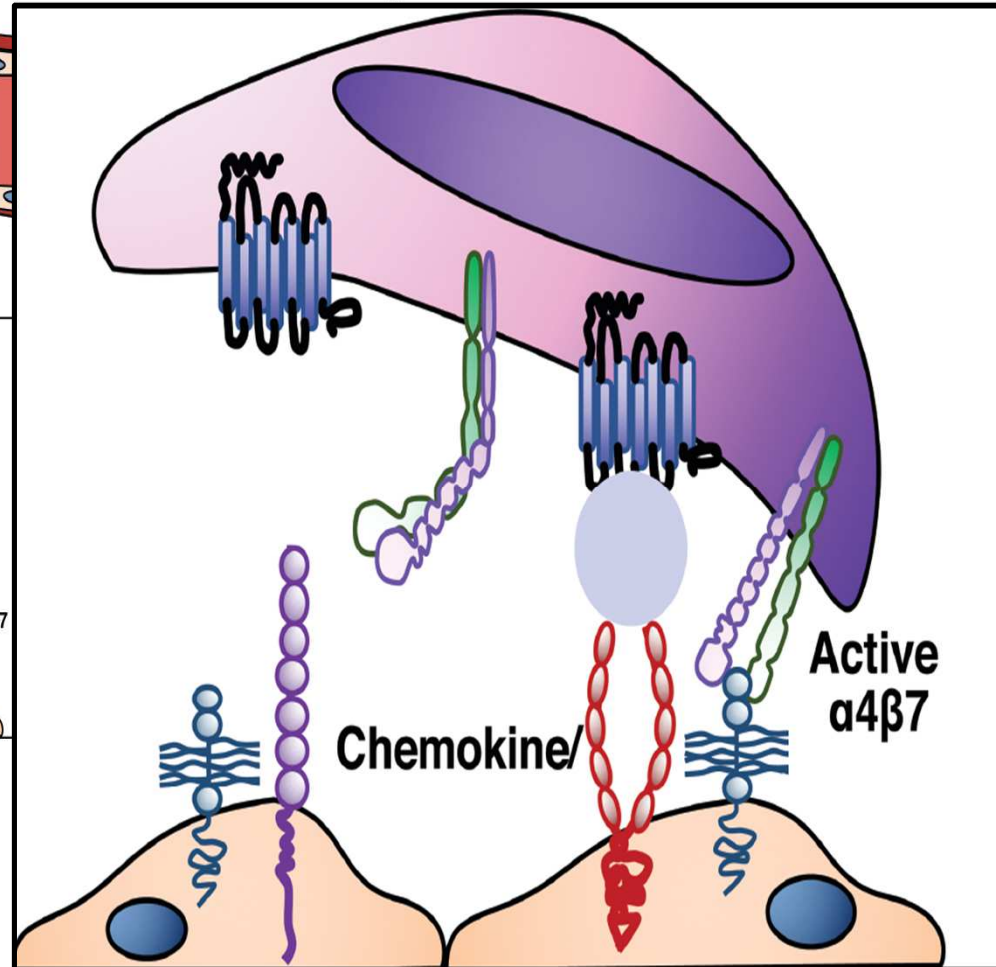
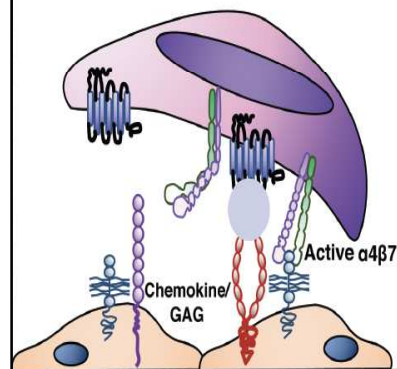
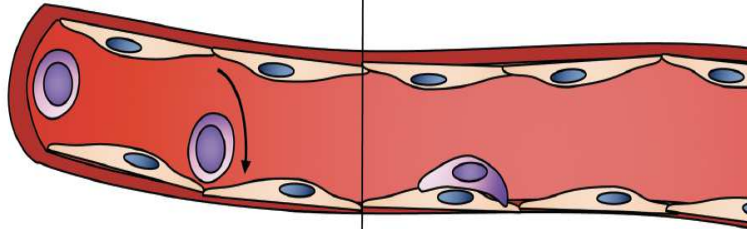
1. Rouler / agripper



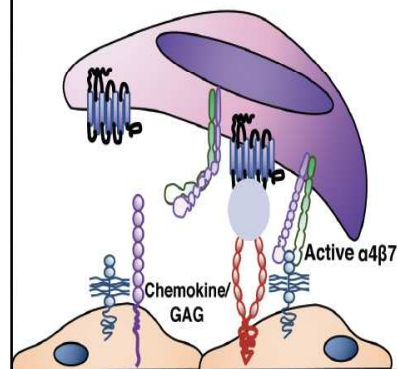
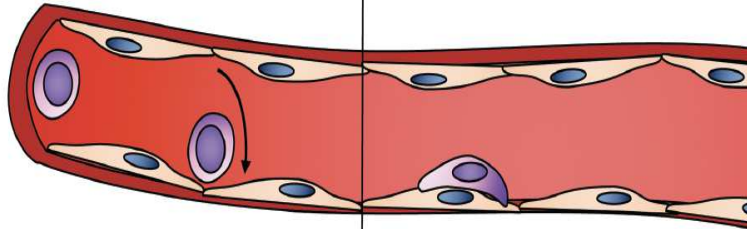
1. Rouler / agripper



2. Se positionner

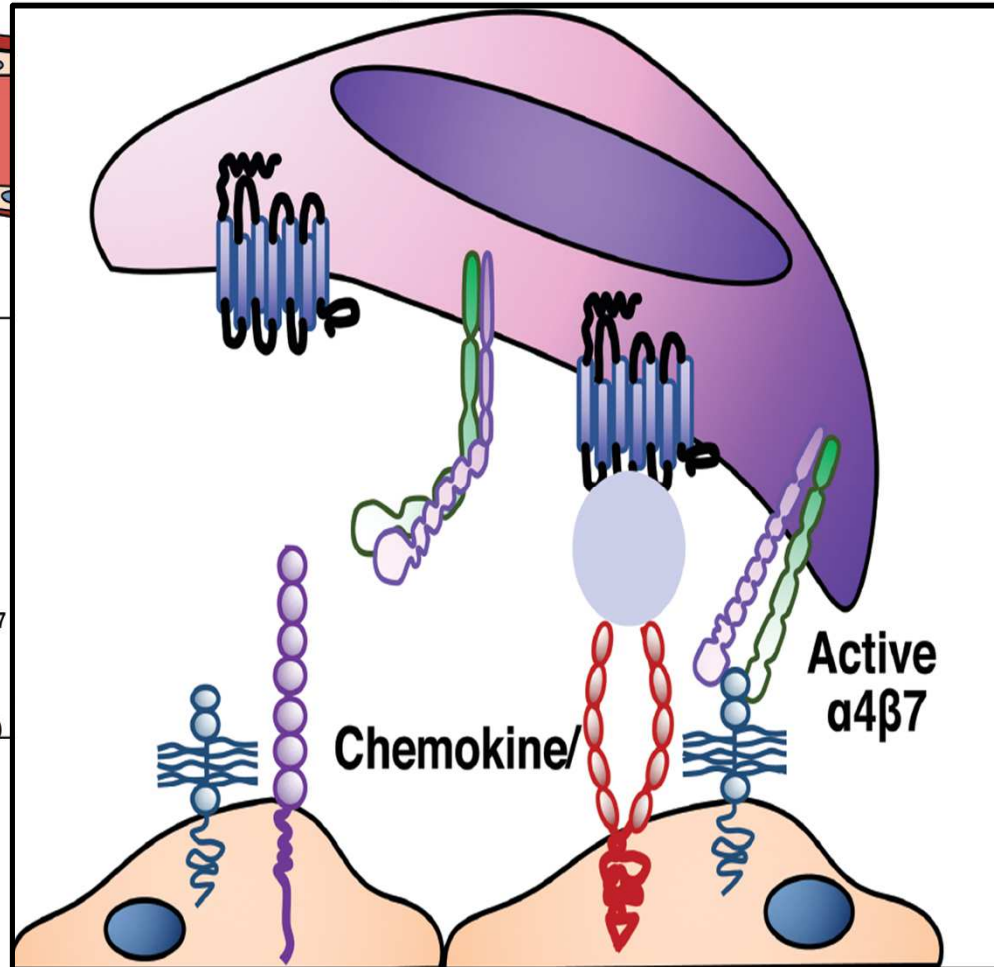


2. Se positionner

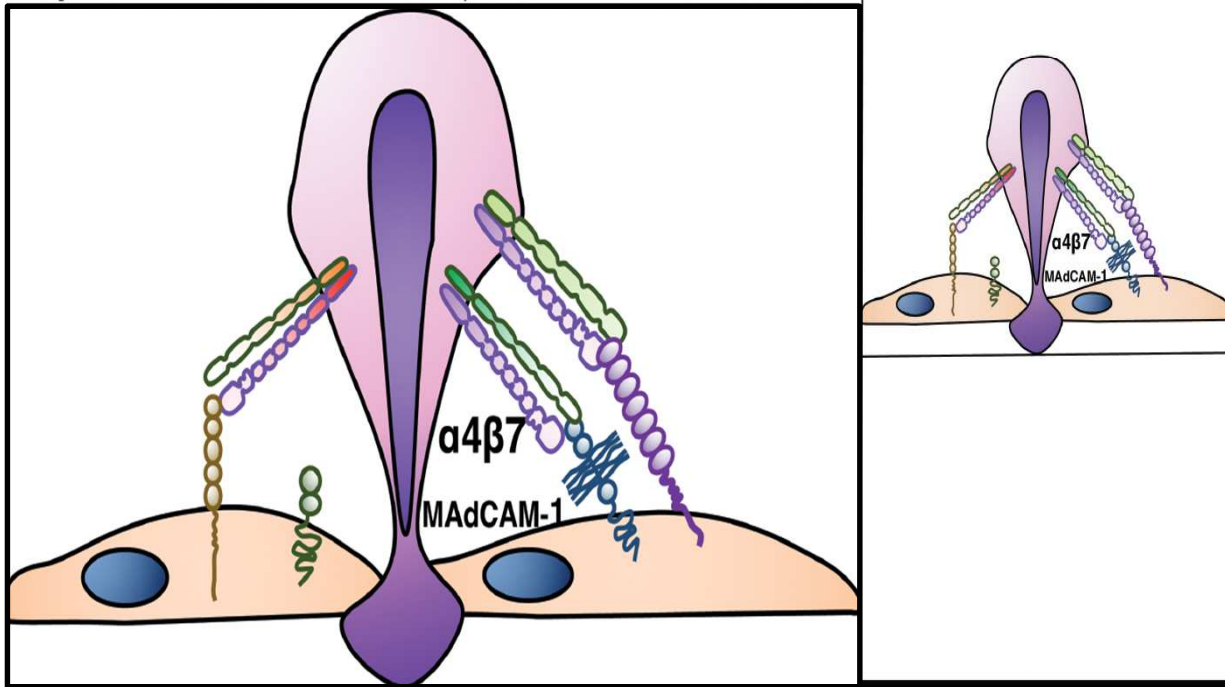
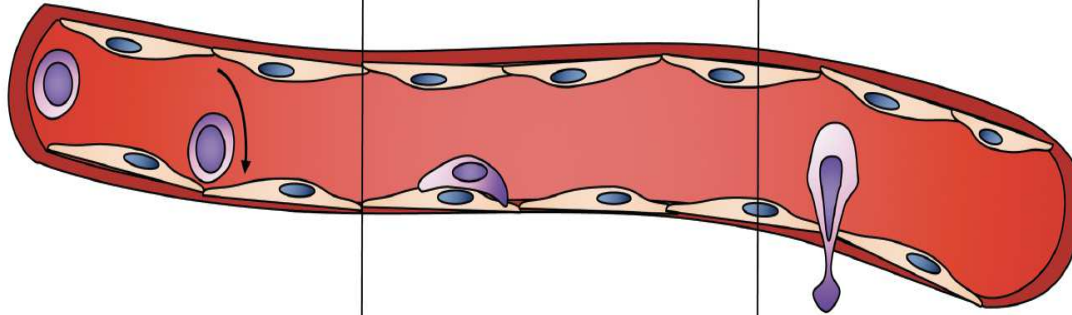


Vercinon (anti-CCR9)
Eldemumab (mAb anti-CXCL10)
GSK3050002 (mAb anti-CCL20)

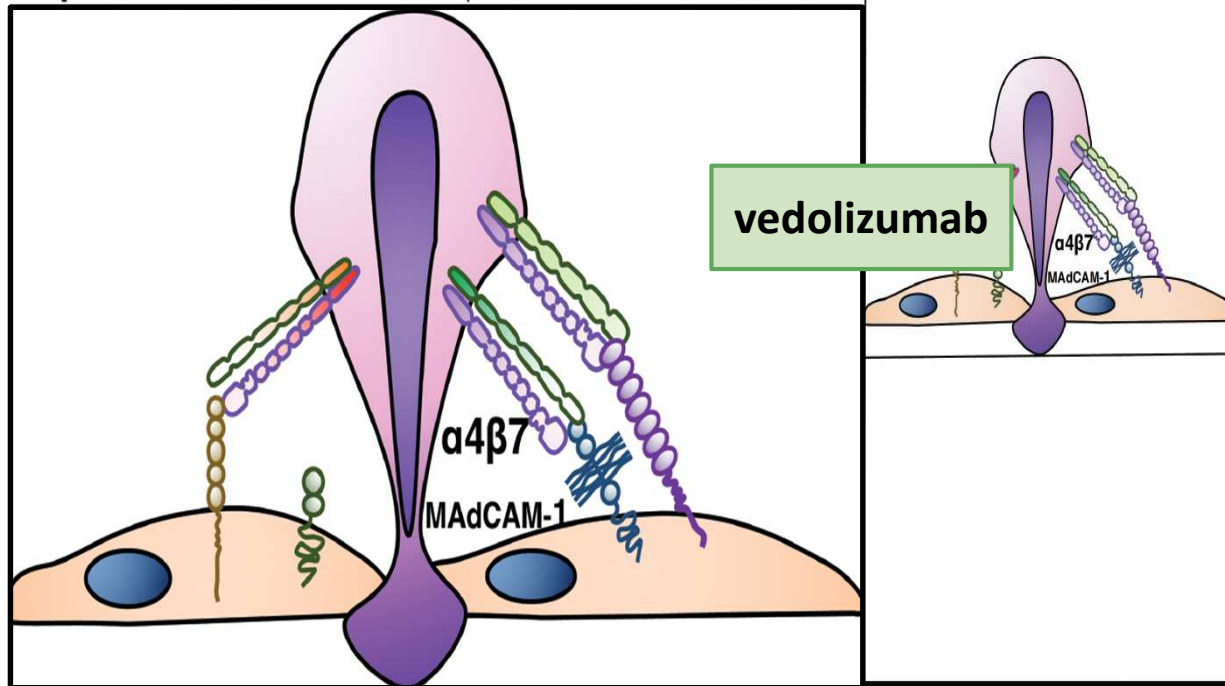
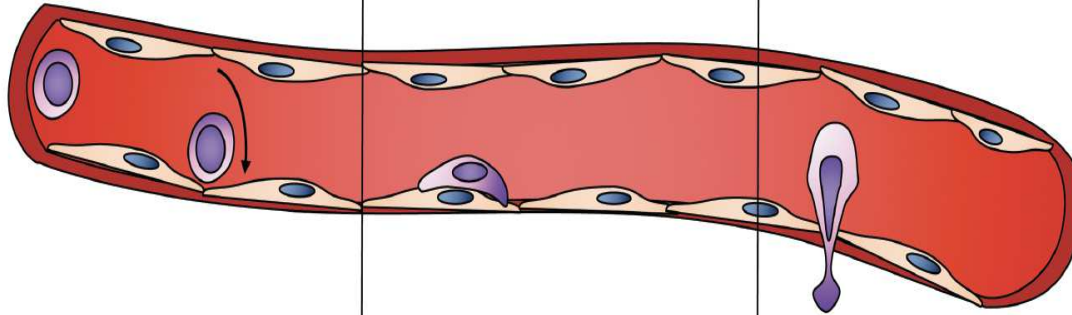
n=3
(2 négatifs)



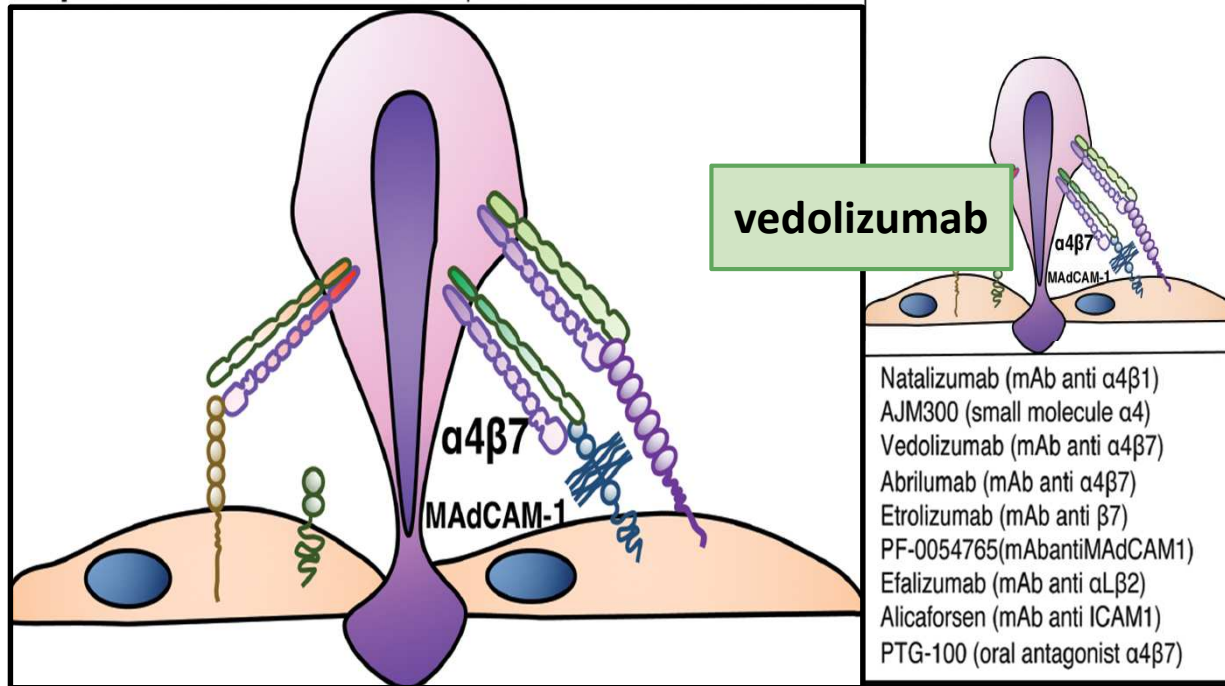
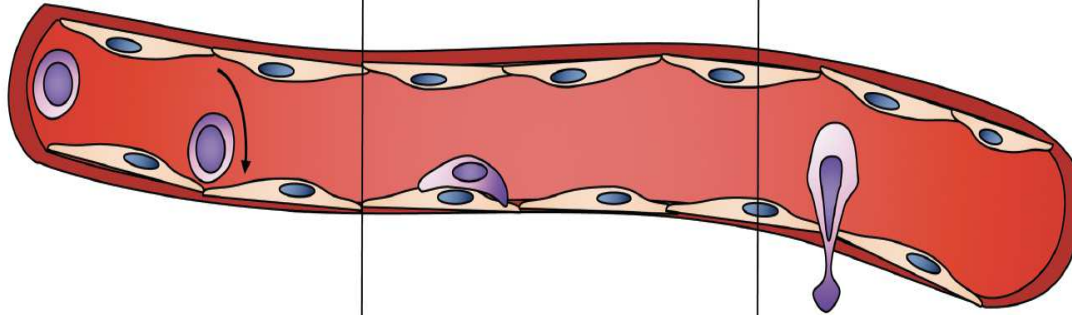
3. Migrer

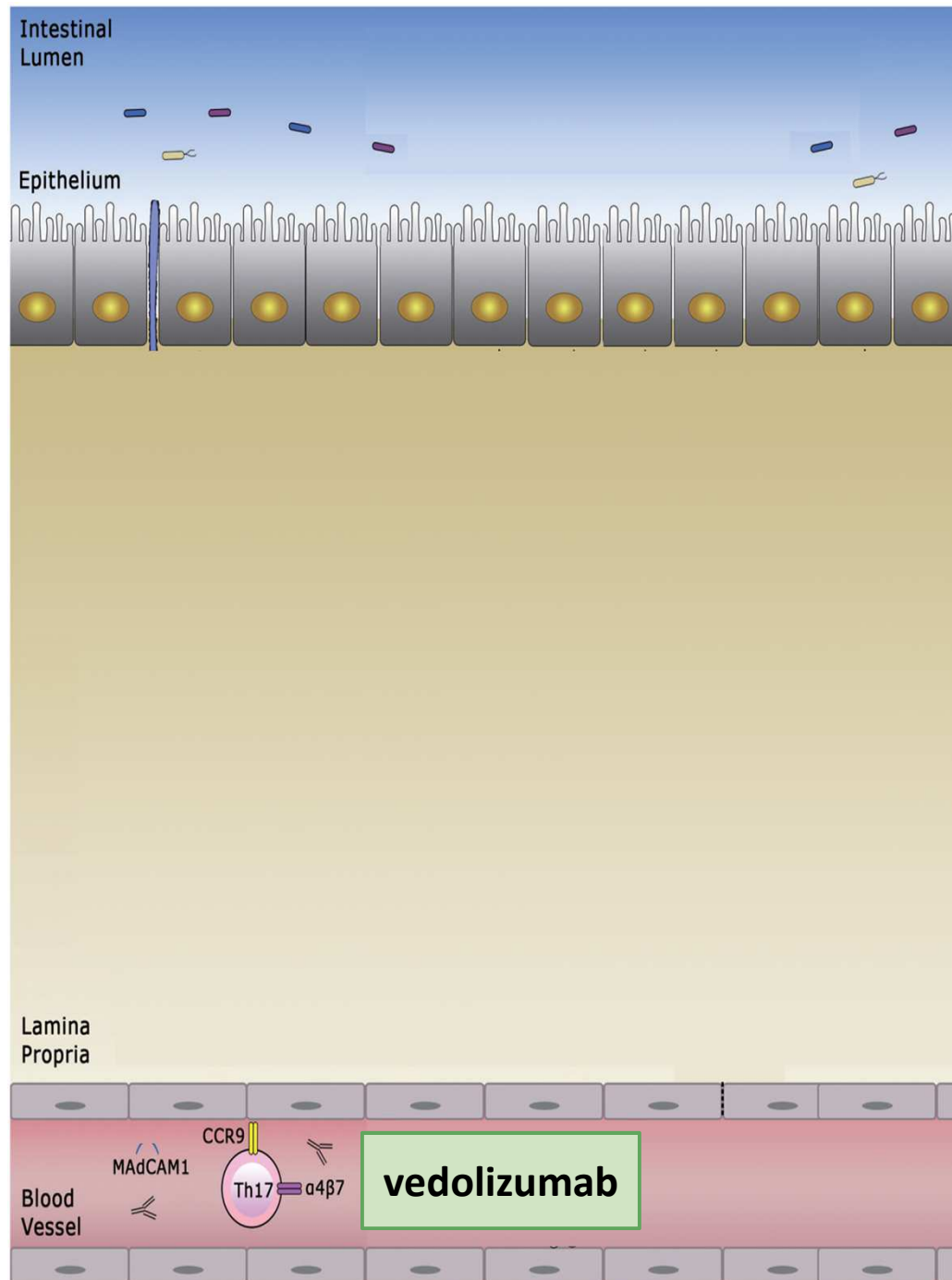


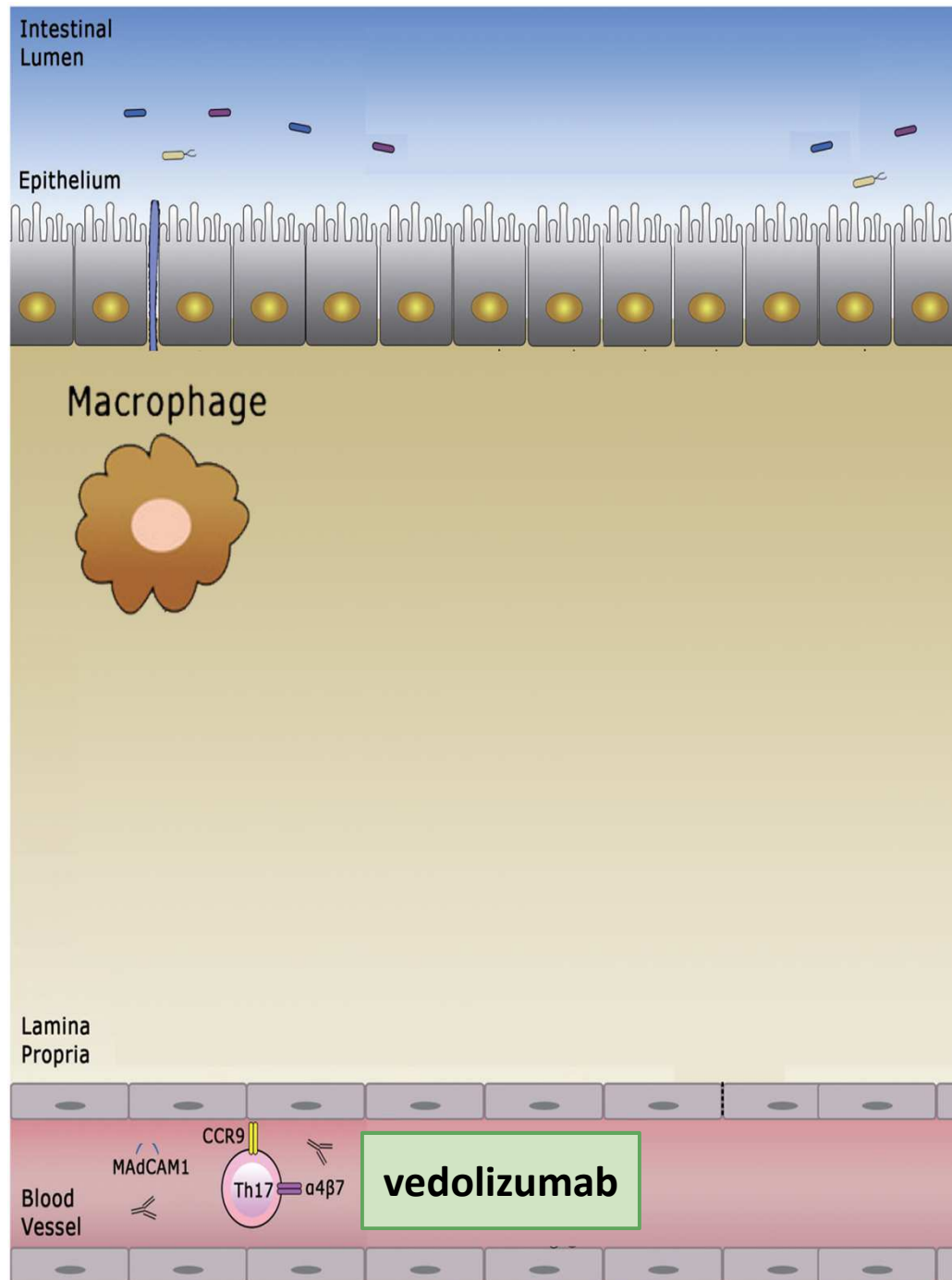
3. Migrer



3. Migrer





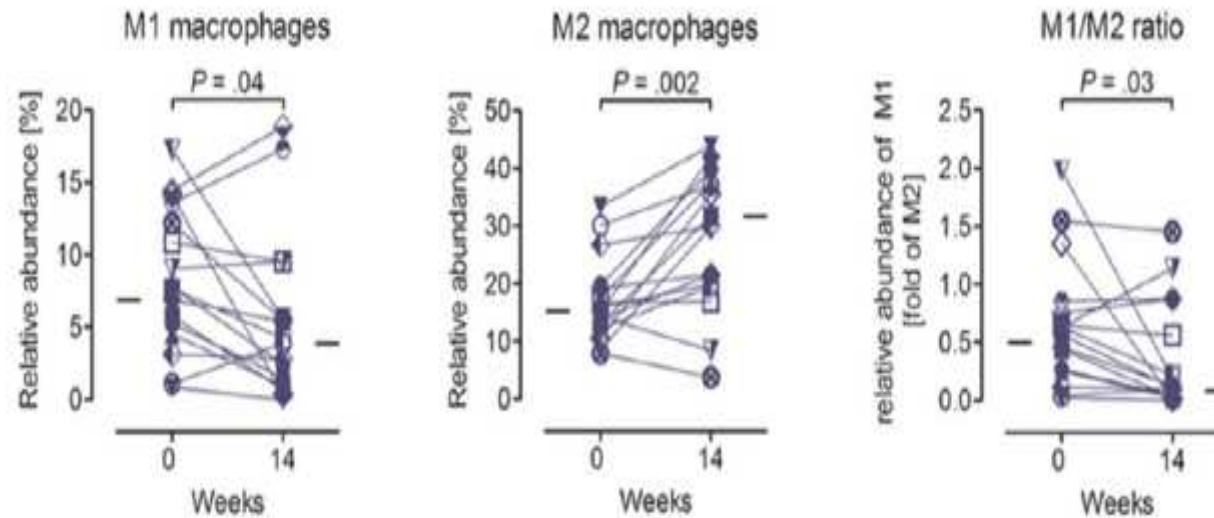


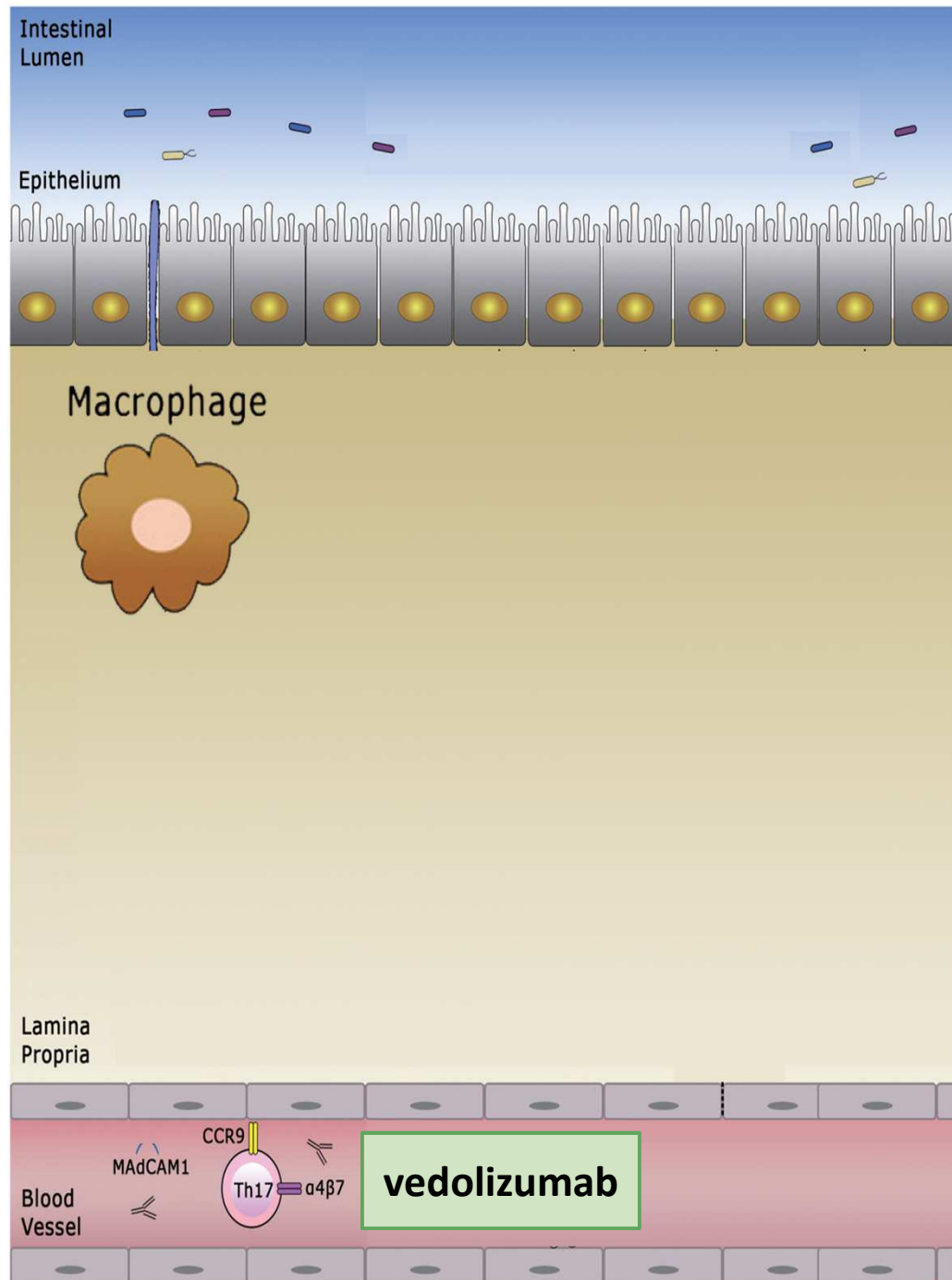
Macrophage



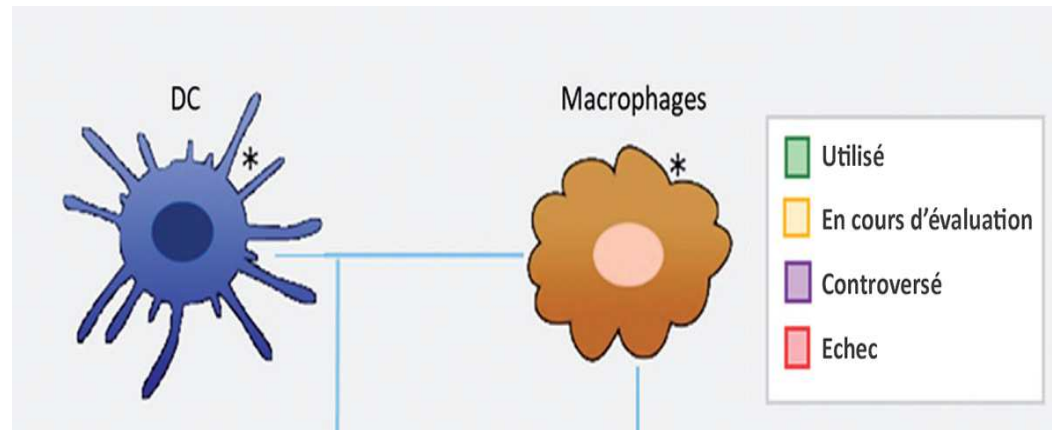
vedolizumab

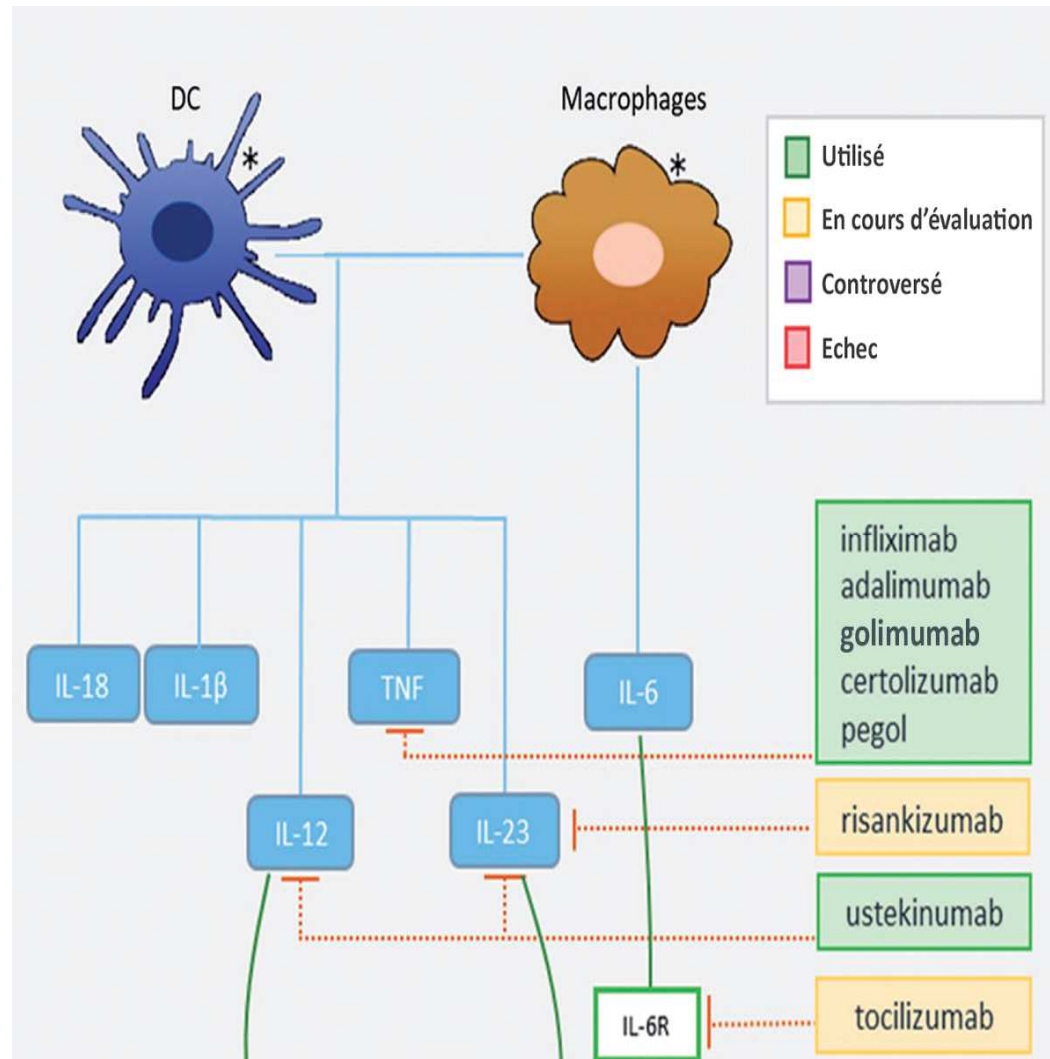
Immunité innée !!!





La fin du voyage





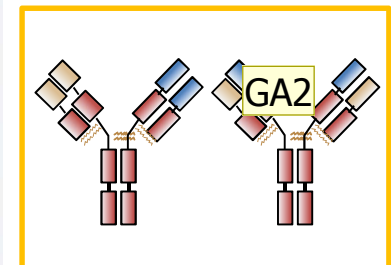
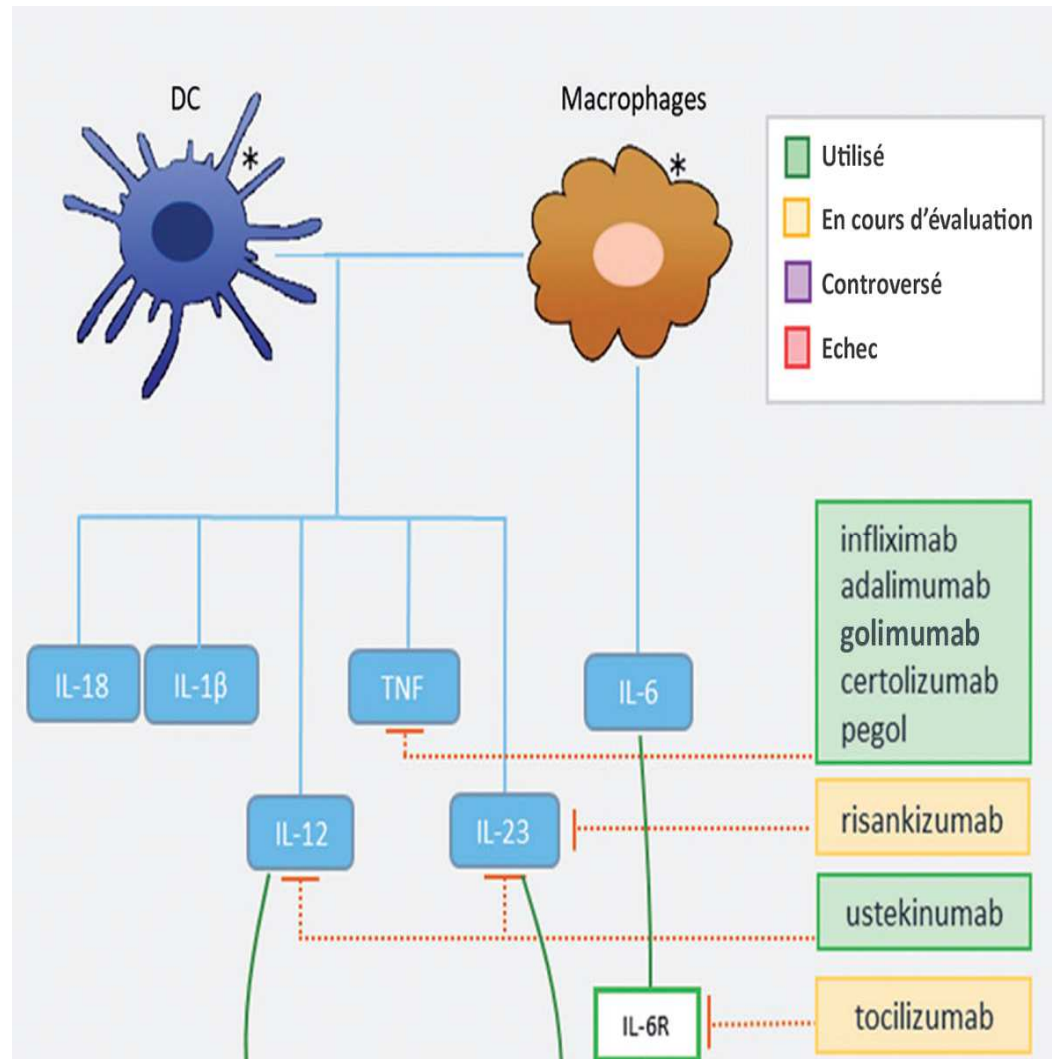
GA1

Diapositive 74

GA1

Golimumab

Gillet, Alexis; 13/03/2019



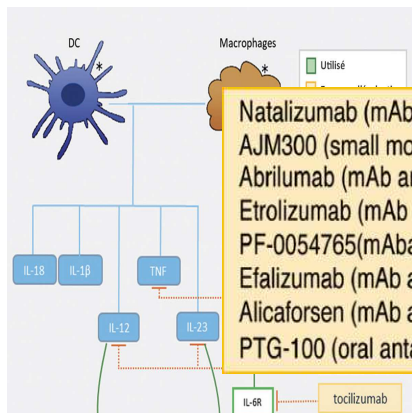
Brazikumab (MEDI 2070)
mirizumab
guselkumab

Diapositive 75

GA2

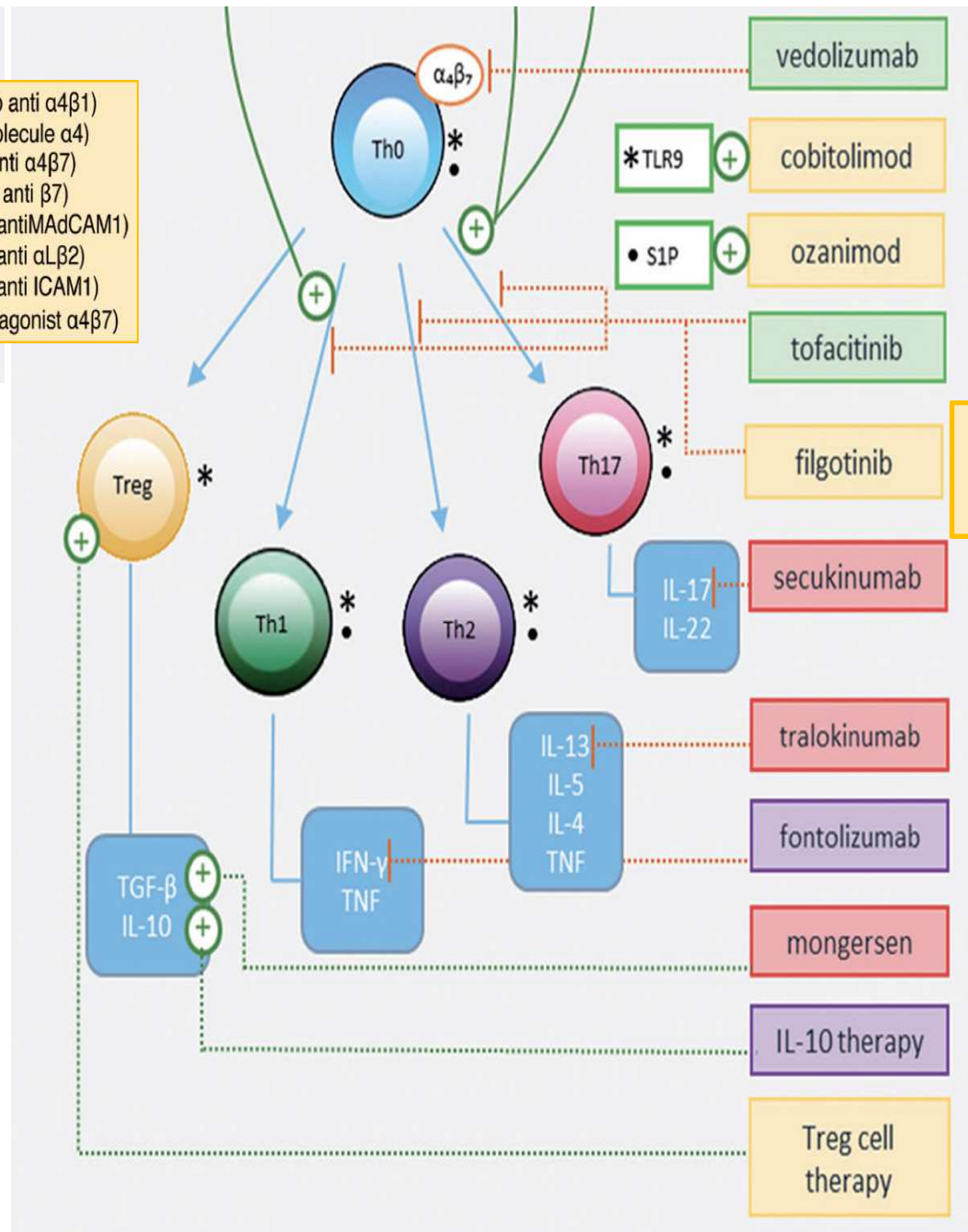
Golimumab

Gillet, Alexis; 13/03/2019



Natalizumab (mAb anti $\alpha 4\beta 1$)
 AJM300 (small molecule $\alpha 4$)
 Abrilumab (mAb anti $\alpha 4\beta 7$)
 Etrolizumab (mAb anti $\beta 7$)
 PF-0054765 (mAb anti ICAM1)
 Efalizumab (mAb anti $\alpha L\beta 2$)
 Alicaforfen (mAb anti ICAM1)
 PTG-100 (oral antagonist $\alpha 4\beta 7$)

Vercinon (anti-CCR9)
 Eldemumab (mAb anti-CXCL10)
 GSK3050002 (mAb anti-CCL20)



TD-1473
 Pf-06651600
 Pf-06700841

Utilisé

En cours d'évaluation

Controversé

Echec



Soyons/SOYEZ enthousiastes !!!

MERCI